

# APPENDIX A

Clone ID	ExperimentID	HumanRNAAccession	HumanProtAccess	Locuslink	Gene Symbol	Gene Description
cr0471	4C	NM_144981	NP_659418	196294	FLJ25059	hypothetical protein FLJ25059
cr0682	4C	NM_001030	NP_001021	6232	RPS27	ribosomal protein S27 (metalloproteinase 1)
fer0018	4C	NM_016208	NP_898880	51160	VPs28	vacuolar protein sorting 28 (yeast)
fer0056	4C	NM_007112	NP_009043	7059	THBS3	thrombospondin 3
fer0061	4C	NM_005119	NP_005110	9967	THRAP3	thyroid hormone receptor associated protein 3
fer0139	4C	NM_032142				
fer0224	4C	NM_003801	NP_003792	8733	GPAA1	GPAA1P anchor attachment protein 1 homolog (yeast)
fer0253	4C	XM_098004				
fer0272	4C	NM_006233	NP_006224	5438	POLR21	polymerase (RNA) II (DNA directed) polypeptide 1,
fer0529	4C	NM_001636	NP_001627	293	SLC25A6	solute carrier family 25 (mitochondrial carrier; a
fer0593	4C	NM_014780	NP_055595	9820	CUL7	cullin 7
fer0608	4C	NM_014052				
fer0707	4C	NM_005770	NP_005761	10169	SERF2	small EDRK-rich factor 2
fer0712	4C	NM_000559	NP_000550	3047	HBB1	hemoglobin, gamma A
fer0768	4C	NM_032378	NP_115754	1936	EEF1D	eukaryotic translation elongation factor 1 delta (
fer0776	4C	NM_032268	NP_115644	84937	ZNRF1	zinc and ring finger protein 1
fer0779	4C	NM_002882	NP_002873	5902	RANBP1	RAN binding protein 1
fer0824	4C	NM_000182	NP_000173	3030	HADHA	hydroxyacyl-Coenzyme A dehydrogenase/3-ketoacyl-Co
fer0842	4C	NM_030926	NP_112188	81618	ITM2C	integral membrane protein 2C
fer0860	4C	NM_021962	NP_068781	29	ABR	active BCR-related gene
fer0946	4C	NM_001416	NP_001407	1973	EIF4A1	eukaryotic translation initiation factor 4A, isofo
fer0955	4C	NM_006886	NP_008817	514	ATP5E	ATP synthase, H+ transporting, mitochondrial F1 co
fer0986	4C	NM_006757	NP_006748	7140	TNNT3	tropoin T3, skeletal, fast
fer0990	4C	NM_005833	NP_005824	10244	RAB9P40	Rab9 effector p40

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fer0997	4C	NM_005620	NP_005611	6282	S100A11	S100 calcium binding protein A11 (calgizzarin)
fer0999	4C	NM_002778	NP_002769	5660	PSAP	prosaposin (variant Gaucher disease and variant me
fer1068	4C	NM_006265	NP_006256	5885	RAD21	RAD21 homolog (S. pombe)
fer1173	4C	NM_004343	NP_004334	811	CALR	calreticulin
fer1305	4C	NM_014892				
fer1337	4C	NM_004145	NP_004136	4650	MYO9B	myosin IXB
fer1463	4C	NM_001918	NP_001909	1629	DBT	dihydroliipoamide branched chain transacylase (E2 c
fer1557	4C	NM_022356	NP_071751	64175	LEPRE1	leucine proline-enriched proteoglycan (leprecan) 1
fer1633	4C	NM_014047	NP_054766	28974	HSPC023	HSPC023 protein
fer1756	4C	NM_005327	NP_005318	3033	HADHSC	L-3-hydroxyacyl-Coenzyme A dehydrogenase, short ch
fer1833	4C	NM_005343				
fer1844	4C	NM_003492	NP_003483	8269	CXorf12	chromosome X open reading frame 12
fer1855	4C	NM_001866	NP_001857	1349	COX7B	cytochrome c oxidase subunit VIIb
fer1879	4C	NM_003428	NP_003419	7637	ZNF84	zinc finger protein 84 (HPF2)
fer2018	4C	NM_033251	NP_150254	6137	RPL13	ribosomal protein L13
fer2074	4C	NM_017459	NP_059453	4237	MEAP2	microfibrillar-associated protein 2
fer2079	4C	NM_014720	NP_055535	9748	SLK	SNF1 sucrose nonfermenting like kinase (yeast)
fer2088	4C	NM_005252	NP_005243	2353	FOS	v-fos FBJ murine osteosarcoma viral oncogene homol
fer2102	4C	NM_014300	NP_055115	23478; 157708	SPC18	signal peptidase complex (18kD)
fer2103	4C	NM_002074	NP_002065	2782	GNB1	guanine nucleotide binding protein (G protein), be
fer2160	4C	NM_005898	NP_976240	4076	M11S1	membrane component, chromosome 11, surface marker
fer2164	4C	NM_000972	NP_000963	6130; 147346	RPL7A	ribosomal protein L7a
fer2167	4C	NM_032860	NP_116249	84946	C6orf93	chromosome 6 open reading frame 93
fer2196	4C	NM_014863				
fer2276	4C	NM_007262	NP_009193	11315	PARK7	Parkinson disease (autosomal recessive, early onse

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fer2299	4C	NM_000154	NP_000145	2584	GALK1	galactokinase 1
fer2573	4C	NM_000942	NP_000933	5479	PI1B	peptidylprolyl isomerase B (cyclophilin B)
fer2607	4C	NM_006758	NP_006749	7307	U2AF1	U2(RNU2) small nuclear RNA auxiliary factor 1
fer2798	4C	NM_032830	NP_116219	84916	CIRH1A	cirrhosis, autosomal recessive 1A (cirhin)
fer2859	4C	NM_004223	NP_937826	9246	UBE2L6	ubiquitin-conjugating enzyme E2L 6
fer2940	4C	NM_182470	NP_872271	5315; 400388	PKM2	pyruvate kinase, muscle
fer2952	4C	NM_058246	NP_490647	10049; 387820	DNAJB6	DnaJ (Hsp40) homolog, subfamily B, member 6
fer2958	4C	NM_019609	NP_062555	56265	CPXM	carboxypeptidase X (M14 family)
fer3053	4C	NM_080425	NP_536351	2778	GNAS	GNAS complex locus
fer3101	4C	NM_012073	NP_036205	22948	CCT5	chaperonin containing TCP1, subunit 5 (epsilon)
fer3121	4C	NM_015934	NP_057018	51602	NOP5/NOP58	nucleolar protein NOP5/NOP58
fer3155	4C	NM_003281	NP_003272	7135	TNNI1	tropoin 1, skeletal, slow
fer3181	4C	NM_005318	NP_005309	3005	H1F0	H1 histone family, member 0
fer3323	4C	NM_199330	NP_955364	9455	HOMER2	homer homolog 2 (Drosophila)
fer3559	4C	NM_002615	NP_002606	5176	SERPINF1	serine (or cysteine) proteinase inhibitor, clade F
fer3595	4C	NM_005003	NP_004994	4706	NDUFAB1	NADH dehydrogenase (ubiquinone) 1, alpha/beta subc
fer3620	4C	NM_002165	NP_851998	3397	ID1	inhibitor of DNA binding 1, dominant negative heli
fer3664	4C	NM_005507	NP_005498	1072	CFL1	cofilin 1 (non-muscle)
fer3823	4C	NM_005964	NP_005955	4628	MYH10	myosin, heavy polypeptide 10, non-muscle
fer3983	4C	NM_016081	NP_057165	23022	KIAA0992	palladin
fer4057	4C	NM_006185	NP_006176	4926	NUMA1	nuclear mitotic apparatus protein 1
fer4128	4C	NM_006371	NP_006362	10491	CRTAP	cartilage associated protein
fer4129	4C	NM_000466	NP_000457	5189	PEX1	peroxisome biogenesis factor 1
fer4214	4C	NM_004548	NP_004539	4716	NDUFB10	NADH dehydrogenase (ubiquinone) 1 beta subcomplex,
fer4272	4C	NM_032592	NP_115981	84680	PHACS	l-aminocyclopropane-l-carboxylate synthase

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fer4380	4C	NM_003443	NP_003434	7709	ZNF151	zinc finger protein 151 (pHZ-67)
fer4477	4C	NM_134264	NP_599027	26118	WSB1	WD repeat and SOCS box-containing 1
fer4622	4C	NM_004074	NP_004065	1351	COX8A	cytochrome c oxidase subunit 8A
fer4634	4C	NM_015352	NP_758436	23509	POFUT1	protein O-fucosyltransferase 1
fer4699	4C	NM_139276	NP_998827	6774	STAT3	signal transducer and activator of transcription 3
fer4763	4C	NM_014324	NP_976316	23600	AMACR	alpha-methylacyl-CoA racemase
fer4782	4C	NM_194328	NP_919313	152006	RNF38	ring finger protein 38
fer4795	4C	NM_006819	NP_006810	10963	STIP1	stress-induced-phosphoprotein 1 (Hsp70/Hsp90-organ
fer4831	4C	NM_000270	NP_000261	4860	NP	nucleoside phosphorylase
fer4832	4C	NM_000186	NP_000177	3075	HF1	H factor 1 (complement)
fer4846	4C	NM_002616	NP_002607	5187	PER1	period homolog 1 (Drosophila)
fer4885	4C	NM_014183	NP_808853	83658	DNCL2A	dynein, cytoplasmic, light polypeptide 2A
fer4927	4C	NM_001610	NP_001601	53	ACP2	acid phosphatase 2, lysosomal
fer4954	4C	NM_003374	NP_003365	7416	VDAC1	voltage-dependent anion channel 1
fer4965	4C	NM_000441	NP_000432	5172	SLC26A4	solute carrier family 26, member 4
fer5006	4C	NM_006817	NP_006808	10961	C12orf8	chromosome 12 open reading frame 8
fer5075	4C	NM_021126	NP_066949	4357	MPST	mercaptopyruvate sulfurtransferase
fer5112	4C	NM_022372	NP_071767	64223	GBL	G protein beta subunit-like
fer5123	4C	NM_005834	NP_005825	10245	TIMM17B	translocase of inner mitochondrial membrane 17 hom
fer5176	4C	NM_001675	NP_877962	468	ATF4	activating transcription factor 4 (tax-responsive
fer5204	4C	NM_014164	NP_659003	53827	FXVD5	FXVD domain containing ion transport regulator 5
fer5222	4C	NM_007007	NP_008938	11052	CPSF6	cleavage and polyadenylation specific factor 6, 68
fer5288	4C	NM_007027	NP_008958	11073	TOPBP1	topoisomerase (DNA) II binding protein
fer5316	4C	NM_017510	NP_059980	54732	HSGP25L2G	gp25L2 protein
fer5339	4C	NM_000146	NP_000137	2512	FTL	ferritin, light polypeptide



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fer5354	4C	NM_001861	NP_001852	1327	COX4II	cytochrome c oxidase subunit IV isoform 1
fer5425	4C	NM_001402	NP_001393	1915; 389411	EEF1A1	eukaryotic translation elongation factor 1 alpha 1
fer5470	4C	NM_138501	NP_612510	9524; 391676	GPSN2	glycoprotein, synaptic 2
fer5509	4C	NM_000527	NP_000518	3949	LDLR	low density lipoprotein receptor (familial hyperch
fer5559	4C	NM_002128	NP_002119	3146	HMGBl	high-mobility group box 1
fer5618	4C	NM_001946	NP_073143	1848	DUSP6	dual specificity phosphatase 6
fer5625	4C	NM_000998	NP_000989	6168	RPL37A	ribosomal protein L37a
fer5720	4C	NM_017801	NP_060271	54918	CKLFSF6	chemokine-like factor super family 6
fer5723	4C	NM_133476	NP_597733	171017	ZNF384	zinc finger protein 384
fer5755	4C	NM_024544	NP_078820	79594	FLJ12875	hypothetical protein FLJ12875
fer5758	4C	NM_007108	NP_996896	6923	TCEB2	transcription elongation factor B (SIII), polypept
fer5779	4C	NM_006196	NP_006187	5093	PCBP1	poly(rC) binding protein 1
fer5889	4C	NM_016936	NP_058632	29855	UBN1	ubinnuclein 1
fer6016	4C	NM_003164	NP_003155	6811	STX5A	synaptaxin 5A
fer6044	4C	NM_022165	NP_060581	55150; 64130	FLJ10490	hypothetical protein FLJ10490
fer6150	4C	NM_006415	NP_847894	10558	SPTLC1	serine palmitoyltransferase, long chain base subun
fer6235	4C	NM_005439	NP_005430	8079	MLF2	myeloid leukemia factor 2
fer6266	4C	NM_021019	NP_524149	4637	MYL6	myosin, light polypeptide 6, alkali, smooth muscle
fer6314	4C	NM_004805	NP_004796	5433	POLR2D	polymerase (RNA) II (DNA directed) polypeptide D
fer6386	4C	NM_004875	NP_976035	9533	POLR1C	polymerase (RNA) I polypeptide C, 30kDa
fer6390	4C	NM_144582	NP_653183	113419	TEX261	testis expressed gene 261
fer6412	4C	NM_005969	NP_005960	4676; 55434	NAPIL4	nucleosome assembly protein I-like 4
fer6415	4C	NM_006572	NP_006563	10672	GNA13	guanine nucleotide binding protein (G protein), al
fer6497	4C	NM_004785	NP_004776	9351	SLC9A3R2	solute carrier family 9 (sodium/hydrogen exchanger

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fer6534	4C	NM_017426	NP_059122	53371	NUF54	nucleoporin 54kDa
fer6573	4C	NM_002893	NP_002884	5931	RBBP7	retinoblastoma binding protein 7
fer6577	4C	NM_004040	NP_004031	388	RHOB	ras homolog gene family, member B
fer6592	4C	NM_052887	NP_683708	114609	TIRAP	toll-interleukin 1 receptor (TIR) domain containin
fer6616	4C	NM_015047	NP_055862	23065	KIAA0090	KIAA0090 protein
fer6881	4C	NM_031966	NP_114172	891	CCNB1	cyclin B1
fer6931	4C	NM_015909	NP_056993	51594	NAG	neuroblastoma-amplified protein
fer6937	4C	NM_000918	NP_000909	5034	P4HB	procollagen-proline, 2-oxoglutarate 4-dioxygenase
fer7004	4C	NM_002391	NP_002382	4192	MDK	midkine (neurite growth-promoting factor 2)
fer7026	4C	NM_016451	NP_057535	1315	COPB	coatomer protein complex, subunit beta
fer7042	4C	NM_005273	NP_005264	2783	GNB2	guanine nucleotide binding protein (G protein), be
fer7043	4C	NM_000612	NP_000603	3481	IGF2	insulin-like growth factor 2 (somatomedin A)
fer7403	4C	NM_005176	NP_005167	517,341412	ATP5G2	ATP synthase, H+ transporting, mitochondrial F0 co
fer7419	4C	NM_002455	NP_942584	4580	MTX1	metaxin 1
fer7587	4C	NM_007085	NP_009016	11167	FSTL1	folliculin-like 1
ferb0265	4C	NM_006196	NP_006187	5093	PCBP1	poly(rC) binding protein 1
ferb1017	4C	NM_024592	NP_078868	79644	FLJ13352	hypothetical protein FLJ13352
ferb1160	4C	NM_000366	NP_000357	7168	TPM1	tropomyosin 1 (alpha)
ferb1202	4C	NM_016127	NP_057211	51669	MGC8721	hypothetical protein MGC8721
ferb1312	4C	NM_006805	NP_006796	10949	HNRPA0	heterogeneous nuclear ribonucleoprotein A0
ferb1320	4C	NM_022333	NP_071728	7073	TIAL1	TIA1 cytotoxic granule-associated RNA binding prot
ferb1337	4C	NM_014394	NP_055209	27069	GHTM	growth hormone inducible transmembrane protein
ferb1381	4C	NM_032560	NP_115949	55671	KIAA2010	KIAA2010
ferb1420	4C	NM_022170	NP_114381	7458	WBSR1	Williams-Beuren syndrome chromosome region 1
ferb1496	4C	NM_001320	NP_001311	1460	CSNK2B	casein kinase 2, beta polypeptide

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ferb1503	4C	NM_021738	NP_068506	6840	SVIL	supervillin
ferb1528	4C	NM_004448	NP_004439	2064	ERBB2	v-erb-b2 erythroblastic leukemia viral oncogene ho
ferb1529	4C	NM_004530	NP_004521	4313	MMP2	matrix metalloproteinase 2 (gelatinase A, 72kDa ge
ferb1547	4C	NM_022003	NP_071286	53826	FXVD6	FXVD domain containing ion transport regulator 6
ferb1550	4C	NM_005102	NP_005093	9637	FEZ2	fasciculation and elongation protein zeta 2 (zygin
ferb1578	4C	NM_004547	NP_004538	4710	NDUFB4	NADH dehydrogenase (ubiquinone) 1 beta subcomplex,
ferb1657	4C	NM_002826	NP_002817	5768; 200058	QSCN6	quiescin Q6
ferb1689	4C	NM_002128	NP_002119	3146	HMGB1	high-mobility group box 1
ferb1720	4C	NM_006294	NP_006285	7381	UQCRCB	ubiquinol-cytochrome c reductase binding protein
ferb1721	4C	NM_002632	NP_002623	5228	PGF	placental growth factor, vascular endothelial grow
ferb1724	4C	NM_015662	NP_056477	26160	SLB	selective LIM binding factor, rat homolog
ferb1733	4C	NM_021809	NP_068581	60436	TGIF2	TGFB-induced factor 2 (TAE family homeobox)
ferb1741	4C	NM_001416	NP_001407	1973	EIF4A1	eukaryotic translation initiation factor 4A, isofo
ferb1750	4C	NM_001457	NP_001448	2317	FLNB	filamin B, beta (actin binding protein 278)
ferb1763	4C	XM_209913	NP_008844	6048; 286140	RNF5	ring finger protein 5
ferb1807	4C	NM_000142	NP_075254	2261	FGFR3	fibroblast growth factor receptor 3 (achondroplasi
ferb1834	4C	NM_079425	NP_524149	4637	MYL6	myosin, light polypeptide 6, alkali, smooth muscle
ferb1855	4C	NM_006659	NP_006650	10844	TUBGCP2	tubulin, gamma complex associated protein 2
ferb1892	4C	NM_000558	NP_000508	3040; 3039	HBA2	hemoglobin, alpha 2
ferb1960	4C	NM_000612	NP_000603	3481	IGF2	insulin-like growth factor 2 (somatomedin A)
ferb1962	4C	NM_015466	NP_056281	25930	PTPN23	protein tyrosine phosphatase, non-receptor type 23
ferb2020	4C	NM_020440	NP_065173	5738	PTGFRN	prostaglandin F2 receptor negative regulator
ferb2040	4C	NM_006986	NP_008917	9500	MAGED1	melanoma antigen, family D, 1
ferb2060	4C	NM_006486	NP_006478	2192	FBLN1	fibulin 1
ferb2090	4C	NM_022908	NP_075059	64943	FLJ12442	hypothetical protein FLJ12442

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ferb2137	4C	NM_000184	NP_000175	3048; 3047	HBG2	hemoglobin, gamma G
ferb2160	4C	NM_003878	NP_003869	8836	GGH	gamma-glutamyl hydrolase (conjugase, folylpolygamma
ferb2189	4C	NM_015068				
ferb2198	4C	NM_000093	NP_000084	1289; 389804	COL5A1	collagen, type V, alpha 1
ferb2218	4C	NM_005594	NP_005585	4666; 5557	NACA	nascent polypeptide-associated complex alpha polyp
ferb2223	4C	NM_017515	NP_059985	54733	SLC35F2	solute carrier family 35, member F2
ferb2249	4C	NM_003922	NP_003913	8925	HERC1	hect (homologous to the E6-AP (UBE3A) carboxyl ter
ferb2292	4C	NM_012311	NP_036443	22944	KIN	KIN, antigenic determinant of recA protein homolog
ferb2305	4C	NM_001402	NP_001393	1915; 389411	EEF1A1	eukaryotic translation elongation factor 1 alpha 1
ferb2308	4C	NM_005563	NP_981946	3925	STMN1	stathmin 1/oncoprotein 18
ferb2325	4C	NM_003981	NP_955446	9055	PRC1	protein regulator of cytokinesis 1
ferb2330	4C	NM_024899	NP_079175	79959	C18orf9	chromosome 18 open reading frame 9
ferb2350	4C	NM_002997	NP_002988	6382	SDC1	syndecan 1
ferb2353	4C	NM_015965	NP_057049	51079; 148113; 37488	GRIM19	cell death-regulatory protein GRIM19
ferb2426	4C	NM_017886	NP_060356	54986	FLJ20574	hypothetical protein FLJ20574
ferb2472	4C	NM_007126	NP_009057	7415	VCP	valosin-containing protein
ferb2484	4C	NM_017777	NP_060247	54903	FLJ20345	hypothetical protein FLJ20345
ferb2536	4C	NM_080425	NP_536351	2778	GNAS	GNAS complex locus
ferb2554	4C	NM_024595	NP_078871	79647	FLJ12666	hypothetical protein FLJ12666
ferb2556	4C	NM_006278	NP_006269	6484	SIAT4C	sialyltransferase 4C (beta-galactoside alpha-2,3-s
ferb2591	4C	NM_138425	NP_612434	113246	GRCC10	likely ortholog of mouse gene rich cluster, C10 ge
ferb2592	4C	NM_172020	NP_742017	9883; 402542; 401371	POM121	POM121 membrane glycoprotein (rat)
ferb2596	4C	NM_003345	NP_919237	7329	UBE2I	ubiquitin-conjugating enzyme E2I (UBC9 homolog, ye

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ferb2635	4C	NM_004404	NP_004395	4735; 55917	NEDD5	neural precursor cell expressed, developmentally d
ferb2658	4C	NM_014827	NP_055642	9877	KIAA00663	KIAA00663 gene product
ferb2690	4C	NM_003966	NP_003957	9037	SEMA5A	sema domain, seven thrombospondin repeats (type 1
ferb2704	4C	NM_000517	NP_000508	3040	HBA2	hemoglobin, alpha 2
ferb2713	4C	NM_000991	NP_000982	6158	RPL28	ribosomal protein L28
ferb2715	4C	NM_004350	NP_004341	864	RUNX3	runt-related transcription factor 3
ferb2800	4C	NM_018071				
ferb2813	4C	NM_005022	NP_005013	5216	PFN1	profilin 1
ferb2871	4C	NM_004370	NP_542376	1303	COL12A1	collagen, type XII, alpha 1
ferb2933	4C	NM_031286	NP_112576	83442	SH3BGR13	SH3 domain binding glutamic acid-rich protein like
ferb3017	4C	NM_173647	NP_775918	284996	RNF149	ring finger protein 149
ferb3073	4C	NM_016333	NP_057417	23524	SRRM2	serine/arginine repetitive matrix 2
ferb3083	4C	NM_006455	NP_006446	10609	SC65	synaptonemal complex protein SC65
ferb3134	4C	NM_024630	NP_714968	79683	ZDHHC14	zinc finger, DHHC domain containing 14
ferb3135	4C	NM_014473	NP_055288	27292	HSA9761	putative dimethyladenosine transferase
ferb3165	4C	NM_006859	NP_919433	11019	LIAS	lipoic acid synthetase
ferb3169	4C	NM_130468	NP_569735	113189	DAST1	dermatan 4 sulfotransferase 1
ferb3227	4C	NM_133375	NP_588616	115752	MGC4562	hypothetical protein MGC4562
ferb3237	4C	NM_031284	NP_112574	83440	ADP-GK	ATP-dependent glucokinase
ferb3244	4C	NM_006742	NP_006733	5681	PSKH1	protein serine kinase H1
ferb3298	4C	NM_000581	NP_958799	2876	GPX1	glutathione peroxidase 1
ferb3306	4C	NM_012478	NP_036610	23558	WBP2	WW domain binding protein 2
ferb3461	4C	NM_020954	NP_066005	57714	KIAA1618	KIAA1618
ferb3483	4C	NM_005993	NP_005984	6904	TBCD	tubulin-specific chaperone d
ferb3515	4C	NM_007245	NP_680782	11273	A2LP	ataxin 2 related protein

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ferb3519	4C	NM_148980	NP_684281	260294; 155400; 3403	WBSRCR20C	Williams Beuren syndrome chromosome region 20C
ferb3578	4C	NM_015430	NP_056245	25891	DKFZP586H2 123	DKFZP586H2.123 protein
ferb3651	4C	NM_007085	NP_009016	11167	FSTL1	folliculin-like 1
ferb3654	4C	NM_014750	NP_055565	9787	DLG7	discs, large homolog 7 (Drosophila)
ferb3702	4C	NM_002823	NP_002814	5757; 51685	PTMA	prothymosin, alpha (gene sequence 28)
ferb3704	4C	NM_152794	NP_690009	64344	HIF3A	hypoxia inducible factor 3, alpha subunit
ferb3718	4C	NM_001997	NP_001988	2197	FAU	Finkel-Biskis-Reilly murine sarcoma virus (FBR-MuS
ferb3725	4C	NM_003574	NP_919415	9218	VAPA	VAMP (vesicle-associated membrane protein)-associa
ferb3841	4C	NM_001012	NP_001003	6202; 94161	RPS8	ribosomal protein S8
ferb4109	4C	NM_024644	NP_078920	79697	Cl4orf169	chromosome 14 open reading frame 169
ferb4238	4C	NM_001005	NP_000996	6188; 6079; 114599	RPS3	ribosomal protein S3
ferb4241	4C	NM_015017	NP_963920	23032	USP33	ubiquitin specific protease 33
ferb4248	4C	NM_001023	NP_001014	6224	RPS20	ribosomal protein S20
ferb4252	4C	NM_006009	NP_006000	7846	TUBA3	tubulin, alpha 3
ferb4270	4C	NM_018049	NP_060519	55111; 400670	PLEKHJ1	pleckstrin homology domain containing, family J me
ferb4275	4C	NM_016115	NP_665862	51130	ASB3	ankyrin repeat and SOCS box-containing 3
ferb4294	4C	NM_002496	NP_002487	4728	NDUFS8	NADH dehydrogenase (ubiquinone) Fe-S protein 8, 23
ferb4333	4C	NM_004486	NP_004477	2801	GOLGA2	golgi autoantigen, golgin subfamily a, 2
ferb4340	4C	NM_053045	NP_444273	94107	MGC14327	hypothetical protein MGC14327
ferb4375	4C	NM_173354	NP_775490	150094	SNF1LK	SNF1-like kinase
ferb4378	4C	NM_006549	NP_757380	10645	CAMKK2	calcium/calmodulin-dependent protein kinase kinase
ferb4388	4C	NM_000976	NP_000967	6136	RPL12	ribosomal protein L12
ferb4409	4C	NM_021102	NP_066925	10653	SPINT2	serine protease inhibitor, Kunitz type, 2

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ferb4415	4C	NM_024510	NP_078786	79415	MGC4368	hypothetical protein MGC4368
ferb4428	4C	NM_016436	NP_057520	51230	C2orf104	chromosome 20 open reading frame 104
ferb4534	4C	NM_032547	NP_115936	60592	SCOC	short coiled-coil protein
ferb4570	4C	NM_012321	NP_036453	25804	LSM4	LSM4 homolog, U6 small nuclear RNA associated (S.
ferb4599	4C	NM_002032	NP_002023	2495	FTIH1	ferritin, heavy polypeptide 1
ferb4696	4C	NM_015965	NP_057049	51079; 148113; 37488	GRIM19	cell death-regulatory protein GRIM19
ferb4739	4C	NM_002812	NP_002803	5714	PSMD8	proteasome (prosome, macropain) 26S subunit, non-A
ferb4781	4C	NM_053275	NP_444505	6175	RPLP0	ribosomal protein, large, P0
ferb5092	4C	NM_024312	NP_077288	79158	MGC4170	MGC4170 protein
ferb5177	4C	NM_002092	NP_002083	2926	GRSF1	G-rich RNA sequence binding factor 1
ferb5204	4C	NM_016133	NP_057217	51141	INSIG2	insulin induced gene 2
ferb5214	4C	NM_000991	NP_000982	6158	RPL28	ribosomal protein L28
ferb5254	4C	NM_007362	NP_031388	22916	NCBP2	nuclear cap binding protein subunit 2, 20kDa
ferb5267	4C	NM_173622	NP_775893	284040	FLJ36674	hypothetical protein FLJ36674
ferb5296	4C	NM_145799	NP_665801	23157	6-Sep	sepin 6
ferb5416	4C	NM_017758	NP_060228	54890	FLJ20308	hypothetical protein FLJ20308
ferb5422	4C	NM_018630				
ferb5449	4C	NM_139016	NP_620585	128439	LOC128439	hypothetical gene LOC128439
ferb5527	4C	NM_033251	NP_150254	6137	RPL13	ribosomal protein L13
ferb5536	4C	NM_017607	NP_060077	54776	PPP1R12C	protein phosphatase 1, regulatory (inhibitor) subu
ferb5537	4C	NM_003068	NP_003059	6591	SNAI2	snail homolog 2 (Drosophila)
ferb5588	4C	NM_032548	NP_742025	80325	ABTB1	ankyrin repeat and BTB (POZ) domain containing 1
ferb5639	4C	NM_007048	NP_919423	11119	BTN3A1	butyrophilin, subfamily 3, member A1
ferb5645	4C	NM_206839	NP_996670	10933	MORF4L1	mortality factor 4 like 1



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ferb5675	4C	NM_017710				
ferb5702	4C	NM_017664	NP_060134	55608	ANKRD10	ankyrin repeat domain 10
ferb5751	4C	NM_203462	NP_982287	114932	PP784	PP784 protein
ferb5928	4C	NM_018217	NP_060687	55741	C20orf31	chromosome 20 open reading frame 31
ferb6009	4C	NM_033357	NP_203522	841	CASP8	caspase 8, apoptosis-related cysteine protease
ferb6012	4C	NM_152540	NP_689753	152579	SCFD2	scf1 family domain containing 2
ferb6062	4C	NM_012087	NP_036219	9328	GTF3C5	general transcription factor IIIc, polypeptide 5,
ferb6102	4C	NM_018106	NP_060576	55146	ZDHHC4	zinc finger, DHHc domain containing 4
ferb6185	4C	NM_015584	NP_056399	26073	POLDIP2	polymerase (DNA-directed), delta interacting prote
ferb6191	4C	NM_002696	NP_002687	5436	POLR2G	polymerase (RNA) II (DNA directed) polypeptide G
ferb6251	4C	NM_015677	NP_056492	26751	SH3YL1	SH3 domain containing, Ysc84-like 1 (S. cerevisiae
ferb6432	4C	NM_012267	NP_036399	23640	HSPBP1	hsp70-interacting protein
ferb6436	4C	NM_003075	NP_620706	6601	SMARCC2	SWI/SNF related, matrix associated, actin dependen
ferb6460	4C	NM_004732	NP_004723	9196	KCNAB3	potassium voltage-gated channel, shaker-related su
ferb6715	4C	NM_024656	NP_078932	79709	FLJ22329	hypothetical protein FLJ22329
ferb6725	4C	NM_001328	NP_001319	1487	CTBP1	C-terminal binding protein 1
ferb6734	4C	NM_134264	NP_599027	26118	WSB1	WD repeat and SOCS box-containing 1
ferb6747	4C	NM_000086	NP_000077	1201	CLN3	ceroid-lipofuscinosis, neuronal 3, juvenile (Batte
ferb6768	4C	NM_004443	NP_004434	2049	EPHB3	EphB3
ferb6785	4C	NM_018183	NP_060653	55206	SBN01	sno, strawberry notch homolog 1 (Drosophila)
ferb6829	4C	NM_152727	NP_689940	221184	CPNE2	copine II
ferb6834	4C	NM_015069	NP_055884	23090	ZNF423	zinc finger protein 423
ferb6874	4C	NM_007100	NP_009031	521	ATP51	ATP synthase, H+ transporting, mitochondrial F0 co
ferb6896	4C	NM_030927	NP_112189	81619	DC-TM4F2	tetraspanin similar to TM4SF9
ferb6939	4C	NM_004926	NP_004917	677	ZFP36L1	zinc finger protein 36, C3H type-like 1

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ferb6968	4C	NM_032302	NP_115678	84262	MGC10911	hypothetical protein MGC10911
ferb7036	4C	NM_053048	NP_663623	121260; 114130	SLC15A4	solute carrier family 15, member 4
ferb7113	4C	NM_005809	NP_859428	7001	PRDX2	peroxiredoxin 2
ferb7321	4C	NM_016467		51240	LOC51240	hypothetical protein LOC51240
ferb7339	4C	NM_017853	NP_060323	54957	DLP	Dim1-like protein
ferb7392	4C	NM_174923	NP_777583	203260; 84904	MGC31967	hypothetical protein MGC31967
ferb7453	4C	NM_003993	NP_003984	1196	CLK2	CDC-like kinase 2
ferb7584	4C	NM_000918	NP_000909	5034	P4HB	procollagen-proline, 2-oxoglutarate 4-dioxygenase
ferb7588	4C	NM_003746	NP_003737	8655	DNCL1	dynein, cytoplasmic, light polypeptide 1
ferb7616	4C	NM_005514	NP_005505	3106	HLA-B	major histocompatibility complex, class I, B
ferb7693	4C	NM_004785	NP_004776	9351	SLC9A3R2	solute carrier family 9 (sodium/hydrogen exchanger
ferb7830	4C	NM_003146	NP_003137	6749	SSRP1	structure specific recognition protein 1
ferb7852	4C	NM_012073	NP_036205	22948	CT15	chaperonin containing TCP1, subunit 5 (epsilon)
ferb7944	4C	NM_001697	NP_001688	539	ATP5O	ATP synthase, H+ transporting, mitochondrial F1 co
ferb7951	4C	NM_002768	NP_002759	5119	PCOLN3	procollagen (type III) N-endopeptidase
ferb7981	4C	NM_080629	NP_542197	1301	COL11A1	collagen, type XI, alpha 1
ferb8014	4C	NM_013974	NP_039268	23564	DDAH2	dimethylarginine dimethylaminohydrolase 2
ferb8080	4C	NM_002553	NP_859531	5001	ORC5L	origin recognition complex, subunit 5-like (yeast)
ferb8092	4C	NM_005030	NP_005021	5347	PLK1	polo-like kinase 1 (Drosophila)
ferb8110	4C	NM_032347	NP_115723	84307	ZNF397	zinc finger protein 397
ferb8119	4C	NM_004846	NP_004837	9470; 200765	EIF4EL3	eukaryotic translation initiation factor 4E-like 3
ferb8161	4C	NM_023934	NP_076423	65991	HCBP6	hepatitis C virus core-binding protein 6
ferb8162	4C	NM_006322	NP_006313	10426	TUBGCP3	tubulin, gamma complex associated protein 3
ferb8187	4C	NM_153649	NP_705935	7170	TPM3	tropomyosin 3

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ferb8465	4C	NM_018077	NP_060547	55131	FLJ10377	hypothetical protein FLJ10377
ferb8504	4C	NM_015570	NP_056385	26053	AUTS2	autism susceptibility candidate 2
ferb8516	4C	NM_203339	NP_976084	1191	CLU	clusterin (complement lysis inhibitor, SP-40,40, s
ferb8664	4C	NM_002198	NP_002189	3659	IRF1	interferon regulatory factor 1
ferb8668	4C	NM_003029	NP_892113	6464	SHC1	SHC (Src homology 2 domain containing) transformin
ferb8740	4C	NM_014179		29092	HSPC157	HSPC157 protein
ferb8852	4C	NM_022736	NP_073573	64747	FLJ14153	hypothetical protein FLJ14153
ferb8877	4C	NM_004599	NP_004590	6721	SREBF2	sterol regulatory element binding transcription fa
ferb8901	4C	NM_006758	NP_006749	7307	U2AF1	U2(RNU2) small nuclear RNA auxiliary factor 1
ferb8908	4C	NM_019845	NP_062819	56475	REPRIMO	candidate mediator of the p53-dependent G2 arrest
ferb8940	4C	NM_033209	NP_006279	7070; 94105	THY1	Thy-1 cell surface antigen
ferb8949	4C	NM_153719	NP_714941	23636	NUP62	nucleoporin 62KDa
ferb9147	4C	NM_002487	NP_002478	4692	NDN	needin homolog (mouse)
ferb9253	4C	NM_016463	NP_057547	51523	CXXC5	CXXC finger 5
ferb9269	4C	NM_004639	NP_542434	7917	BAT3	HLA-B associated transcript 3
ferb9352	4C	NM_177438	NP_803187	23405	DICER1	Dicer1, Dcr-1 homolog (Drosophila)
ferb9390	4C	NM_012322	NP_036454	23658	LSM5	LSM5 homolog, U6 small nuclear RNA associated (S.
ferb9420	4C	NM_002778	NP_002769	5660	PSAP	prosaposin (variant Gaucher disease and variant me
ferb9454	4C	NM_006067	NP_006058	10328	NOC4	neighbor of COX4
ferb9481	4C	NM_017881	NP_060351	54981	C9orf95	chromosome 9 open reading frame 95
ferb9499	4C	NM_017939	NP_891552	55027	FLJ20718	hypothetical protein FLJ20718
ferb9588	4C	NM_194458	NP_919440	118424	UBE2J2	ubiquitin-conjugating enzyme E2, J2 (UBC6 homolog,
ferb9639	4C	NM_007285	NP_009216	11345	GABARAPL2	GABA(A) receptor-associated protein-like 2
ferb9649	4C	NM_153649	NP_705935	7170	TPM3	tropomyosin 3
ferb9655	4C	NM_005507	NP_005498	1072	CFL1	cofilin 1 (non-muscle)

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ferb9680	4C	NM_000401	NP_997005	2132	EXT2	exostoses (multiple) 2
ferb9694	4C	NM_015461	NP_056276	25925	ZNF521	zinc finger protein 521
ferb9714	4C	NM_133480	NP_597815	10474	TADA3L	transcriptional adaptor 3 (NGG1 homolog, yeast)-li
ferb9720	4C	NM_000194	NP_000185	3251	HPRT1	hypoxanthine phosphoribosyltransferase 1 (Lesch-Ny
ferb9751	4C	NM_198335	NP_938149	23193; 80789	GANAB	glucosidase, alpha, neutral AB
ferb9843	4C	NM_003407	NP_003398	7538	ZFP36	zinc finger protein 36, C3H type, homolog (mouse)
ferb9856	4C	NM_015350	NP_056165	23507	TA-LRRP	T-cell activation leucine repeat-rich protein
ferb9871	4C	NM_032800	NP_116189	84886	FLJ14525	hypothetical protein FLJ14525
ferb9959	4C	NM_018462	NP_060932	55845	C3orf10	chromosome 3 open reading frame 10
ferc0075	4C	NM_000123	NP_000114	2073	ERCC5	excision repair cross-complementing rodent repair
ferc0094	4C	NM_016495	NP_057579	51256	TBC1D7	TBC1 domain family, member 7
ferc0112	4C	NM_033405	NP_208384	85441	PRIC285	peroxisomal proliferator-activated receptor A inte
ferc0166	4C	NM_020457	NP_065190	57215	THAP11	THAP domain containing 11
ferc0241	4C	NM_006612	NP_006603	10749	KIF1C	kinesin family member 1C
ferc0295	4C	NM_003618	NP_003609	8491	MAP4K3	mitogen-activated protein kinase kinase kin
ferc0350	4C	NM_015180	NP_878918	23224	SYNE2	spectrin repeat containing, nuclear envelope 2
ferc0379	4C	NM_003687	NP_003678	8572	PDLIM4	PDZ and LIM domain 4
ferc0396	4C	NM_002809	NP_002800	5709	PSMD3	proteasome (prosome, macropain) 26S subunit, non-A
ferc0430	4C	NM_002778	NP_002769	5660	PSAP	prosaposin (variant Gaucher disease and variant me
ferc0487	4C	NM_002231	NP_002222	3732	KAI1	kangai 1 (suppression of tumorigenicity 6, prostat
ferc0529	4C	NM_015375	NP_955749	25778	DustyPK	dusty protein kinase
ferc0554	4C	NM_005167	NP_786886	389; 333926	RHOC	ras homolog gene family, member C
ferc0559	4C	NM_001824	NP_001815	1158	CKM	creatine kinase, muscle
ferc0591	4C	NM_001686	NP_001677	506	ATP5B	ATP synthase, H+ transporting, mitochondrial F1 co
ferc0651	4C	NM_004518	NP_742107	3785	KCNQ2	potassium voltage-gated channel, KQT-like subfamil

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ferc0654	4C	NM_153610	NP_705838	202333	CMYA5	cardiomyopathy associated 5
ferc0695	4C	NM_004859	NP_004850	1213; 29045	CLTC	clathrin, heavy polypeptide (Hc)
ferc0771	4C	NM_006389	NP_006380	10525	HYOU1	hypoxia up-regulated 1
ferc0839	4C	NM_001859	NP_001850	1317	SLC31A1	solute carrier family 31 (copper transporters), me
ferc0959	4C	NM_021814	NP_068386	60481	ELOVL5	ELOVL family member 5, elongation of long chain fa
ferc1019	4C	NM_018639	NP_061109	55884	WSB2	WD repeat and SOCS box-containing 2
ferc1216	4C	NM_033396	NP_203754	85456	TNKS1BP1	tankyrase 1 binding protein 1, 182kDa
ferc1381	4C	NM_014970	NP_055785	22920	KIFAP3	kinesin-associated protein 3
ferc1660	4C	NM_020921	NP_891991	51199	NIN	ninein (GSK3B interacting protein)
ferc1689	4C	NM_014232	NP_055047	6844	VAMP2	vesicle-associated membrane protein 2 (synaptobrev
ferc1745	4C	NM_080425	NP_536351	2778	GNAS	GNAS complex locus
ferc1758	4C	NM_032272	NP_115648	84232	MAF1	homolog of yeast MAF1
ferc1763	4C	NM_002802	NP_002793	5700	PSMC1	proteasome (prosome, macropain) 26S subunit, ATPas
ferc1834	4C	NM_019110	NP_061983	387032	ZNF307	zinc finger protein 307
ferc1849	4C	NM_024297	NP_009209	11337; 79142; 23399;	GABARAP	GABA(A) receptor-associated protein
ferc1947	4C	NM_002689	NP_002680	23649	POLA2	polymerase (DNA-directed), alpha (70kD)
ferc1965	4C	NM_000175	NP_000166	2821	GPI	glucose phosphate isomerase
ferc2007	4C	NM_183063	NP_899060	9616	RNF7	ring finger protein 7
ferc2082	4C	NM_025220	NP_694882	80332	ADAM33	a disintegrin and metalloproteinase domain 33
ferc2090	4C	NM_006700	NP_006691	10906	FLN29	FLN29 gene product
ferc2099	4C	NM_006449	NP_006440	10602	CDC42EP3	CDC42 effector protein (Rho GTPase binding) 3
ferc2576	4C	NM_001363	NP_001354	1736	DKC1	dykeratosis congenita 1, dyskerin
ferc2670	4C	NM_017955	NP_663747	55038	CDC44	cell division cycle associated 4
ferc2678	4C	NM_004219	NP_004210	9232	PTTG1	pituitary tumor-transforming 1

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ferc2948	4C	NM_017838	NP_060308	55651	NOLA2	nucleolar protein family A, member 2 (H/ACA small
ferc2969	4C	NM_133645	NP_598400	25821	MTOI	mitochondrial translation optimization 1 homolog (
ferc2997	4C	NM_152283	NP_689496	92379	ZFP62	zinc finger protein 62 homolog (mouse)
ferc3009	4C	NM_020216	NP_064601	6051	RNPEP	arginyl aminopeptidase (aminopeptidase B)
ferc3048	4C	NM_152477	NP_689690	147929	ZNF565	zinc finger protein 565
ferc3240	4C	NM_012232	NP_036364	284119	PTRF	polymerase I and transcript release factor
ferc3358	4C	NM_004549	NP_004540	4718	NDUFC2	NADH dehydrogenase (ubiquinone) 1, subcomplex unkn
ferc3415	4C	NM_144983				
ferc3739	4C	NM_000512	NP_000503	2588	GALNS	galactosamine (N'-acetyl)-6-sulfate sulfatase (Morq
ferc3750	4C	NM_001358	NP_001349	1665	DHX15	DEAH (Asp-Glu-Ala-His) box polypeptide 15
ferc3993	4C	NM_017728	NP_060198	54868	FLJ20255	hypothetical protein FLJ20255
ferc4045	4C	NM_031946	NP_114152	116988	CENTG3	centaurin, gamma 3
ferc4054	4C	NM_004804	NP_004795	9391	CIAO1	WD40 protein Ciaol
ferc4360	4C	NM_030803	NP_942593	55054	APG16L	APG16 autophagy 16-like (S. cerevisiae)
ferc4390	4C	NM_003342	NP_872623	7326	UBE2G1	ubiquitin-conjugating enzyme E2G 1 (UBC7 homolog,
ferc4485	4C	NM_000210	NP_000201	3655	ITGA6	integrin, alpha 6
ferc4658	4C	NM_005027	NP_005018	5296	PIK3R2	phosphoinositide-3-kinase, regulatory subunit, pol
ferc4896	4C	NM_139168	NP_631907	140890	SFRS12	splicing factor, arginine/serine-rich 12
ferc4948	4C	NM_024092	NP_076997	79073	MGC5508	hypothetical protein MGC5508
ferc5142	4C	NM_152906	NP_073557	54487; 128989	DGCR8	DiGeorge syndrome critical region gene 8
ferc5160	4C	NM_002313	NP_006711	3983	ABLIM1	actin binding LIM protein 1
ferc5351	4C	NM_014733	NP_055548	9765	ZFYVE16	zinc finger, FYVE domain containing 16
ferc5516	4C	NM_022359				
ferc5577	4C	NM_000976	NP_000967	6136	RPL12	ribosomal protein L12
ferc5671	4C	NM_022917	NP_631981	65083	NOL6	nucleolar protein family 6 (RNA-associated)

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ferc5797	4C	NM_033161	NP_149351	6836; 401567	SURF4	surfeit 4
ferc5846	4C	NM_181471	NP_852136	5982	RFC2	replication factor C (activator 1) 2, 40kDa
ferc6174	4C	NM_016397	NP_945327	51497	THIL	TH1-like (Drosophila)
ferc6335	4C	NM_153014	NP_079455	5362; 148697	PLXNA2	plexin A2
ferc6563	4C	NM_006047	NP_690908	8904; 10137	CPNE1	copine 1
ferc6566	4C	NM_006852	NP_006843	11011	TLK2	tousled-like kinase 2
ferc6609	4C	NM_030971	NP_112233	81855	BA108L7.2	similar to rat tricarboxylate carrier-like protein
ferc6642	4C	NM_053051	NP_444279	116840	LIP8	LYST-interacting protein LIP8
ferc6826	4C	NM_022073	NP_071356	112399	EGLN3	egl nine homolog 3 (C. elegans)
ferc6854	4C	NM_002499	NP_002490	4756	NEO1	neogenin homolog 1 (chicken)
ferc6888	4C	NM_016183	NP_057267	51154	C1orf33	chromosome 1 open reading frame 33
ferc6970	4C	NM_002570	NP_612198	5046	PACE4	paired basic amino acid cleaving system 4
ferc6990	4C	NM_012179	NP_036311	25793	FBXO7	F-box only protein 7
ferc7047	4C	NM_014964	NP_683723	22905	EPN2	epsin 2
ferc7228	4C	NM_006910	NP_116015	5930	RBBP6	retinoblastoma binding protein 6
ferc7388	4C	NM_014865	NP_055680	9918	CNAP1	chromosome condensation-related SMC-associated pro
hfer0045	4C	NM_003932	NP_003923	6767	ST13	suppression of tumorigenicity 13 (colon carcinoma)
hfer0130	4C	NM_015871	NP_056955	51042	ZNF593	zinc finger protein 593
hfer0225	4C	NM_005896	NP_005887	3417	IDH1	isocitrate dehydrogenase 1 (NADP+), soluble
hfer0237	4C	NM_015196	NP_056011	23240	KIAA0922	KIAA0922 protein
hfer0242	4C	NM_004046	NP_004037	498	ATP5A1	ATP synthase, H+ transporting, mitochondrial F1 co
hfer0285	4C	NM_001728	NP_940993	682	BSG	basigin (OK blood group)
hfer0370	4C	NM_015966	NP_938408	51614	SDBCAG84	serologically defined breast cancer antigen 84
hfer0383	4C	NM_014220	NP_055035	4071	TMASFI	transmembrane 4 superfamily member 1
hfer0415	4C	NM_005168	NP_005159	390	ARHE	ras homolog gene family, member E

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hfer0476	4C	NM_000421	NP_000412	3858	KRT10	keratin 10 (epidermolytic hyperkeratosis; keratosis)
hfer0478	4C	NM_145113	NP_932061	4149	MAX	MAX protein
hfer0489	4C	NM_017953	NP_060423	54680	FLJ20729	hypothetical protein FLJ20729
hfer0496	4C	NM_015942	NP_057026	51001	CGI-12	CGI-12 protein
hfer0521	4C	NM_005202	NP_005193	1296	COL8A2	collagen, type VIII, alpha 2
hfer0624	4C	NM_032961	NP_116586	57575	PCDH10	protocadherin 10
hfer0675	4C	NM_017440	NP_064513	56890	MDM1	nuclear protein double minute 1
hfer0676	4C	NM_002266	NP_002257	3838	KPNA2	karyopherin alpha 2 (RAG cohort 1, importin alpha)
hfer0829	4C	NM_004047	NP_004038	533	ATP6V0B	ATPase, H+ transporting, lysosomal 21kDa, V0 subun
hfer1101	4C	NM_006238	NP_803184	5467	PPARD	peroxisome proliferative activated receptor, delta
hfer1115	4C	NM_021034	NP_066362	10410	IFITM3	interferon induced transmembrane protein 3 (1-8U)
hfer1137	4C	NM_001155	NP_004024	309	ANXA6	annexin A6
hfer1163	4C	NM_014399	NP_055214	27075	TM4SF13	transmembrane 4 superfamily member 13
hfer1189	4C	NM_001959	NP_066944	1933	EEF1B2	eukaryotic translation elongation factor 1 beta 2
hfer1202	4C	NM_002521	NP_002512	4879	NPPB	natriuretic peptide precursor B
hfer1265	4C	NM_003302	NP_003293	7205; 56996	TRIP6	thyroid hormone receptor interactor 6
hfer1302	4C	NM_001482	NP_001473	2628	GATM	glycine amidinotransferase (L-arginine:glycine ami
hfer1304	4C	NM_293669			344978	Similar to actinin, alpha 4 (LOC344978), mRNA
hfer1310	4C	NM_001438	NP_996318	2104	ESRRG	estrogen-related receptor gamma
hfer1314	4C	NM_022144	NP_071427	64102	TNMD	tenomodulin protein
hfer1419	4C	NM_065820				
hfer1641	4C	NM_017943	NP_060413	55030	FBXO34	F-box only protein 34
hfer1671	4C	NM_001457	NP_001448	2317	FLNB	filamin B, beta (actin binding protein 278)
hfer1697	4C	NM_031950	NP_114156	83888	KSP37	Ksp37 protein
hfer1709	4C	NM_033408				

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hfer1733	4C	NM_144488	NP_652760	5998	RGSS3	regulator of G-protein signalling 3
hfer1743	4C	NM_015999	NP_057083	51094	ADIPOR1	adiponectin receptor 1
hfer1760	4C	NM_015172	NP_055987	23215	XTP2	HBxAg transactivated protein 2
hfer1795	4C	NM_019059	NP_061932	54543	TOMM7	translocase of outer mitochondrial membrane 7 homo
hfer1856	4C	NM_002375	NP_112147	4134	MAP4	microtubule-associated protein 4
hfer1863	4C	NM_030573	NP_085050	80764	THAP7	THAP domain containing 7
hfer1914	4C	NM_031243	NP_112533	3181	HNRPA2B1	heterogeneous nuclear ribonucleoprotein A2/B1
hfer2148	4C	NM_014860				
hfer2287	4C	NM_024007	NP_076870	1879	EBF	early B-cell factor
hfer2295	4C	NM_006455	NP_006446	10609	SC65	synaptonemal complex protein SC65
hfer2314	4C	NM_014054				
hfer2390	4C	NM_005968	NP_112480	4670	HNRPM	heterogeneous nuclear ribonucleoprotein M
hfer2516	4C	NM_003474	NP_067673	8038	ADAM12	a disintegrin and metalloproteinase domain 12 (mel
hfer2544	4C	NM_004911	NP_004902	9601	ERP70	protein disulfide isomerase related protein (calci
hfer2598	4C	NM_002295	NP_002286	3921	LAMR1	laminin receptor 1 (ribosomal protein SA, 67kDa)
hfer2629	4C	NM_004699	NP_004690	9130	DXS9928E	DNA segment on chromosome X (unique) 9928 expresse
hfer2789	4C	NM_052871	NP_443103	112597	MGC4677	hypothetical protein MGC4677
hfer2803	4C	NM_012268	NP_036400	23646	PLD3	phospholipase D3
hfer2820	4C	NM_001552	NP_001543	3487	IGFBP4	insulin-like growth factor binding protein 4
hfer2832	4C	NM_001101	NP_001092	60; 71	ACTB	actin, beta
hfer2850	4C	NM_003769	NP_003760	8683	SFRS9	splicing factor, arginine/serine-rich 9
hfer2966	4C	NM_004965	NP_004956	3150	HMGNI	high-mobility group nucleosome binding domain 1
hfer3011	4C	NM_015079	NP_055894	23102	KIAA1055	KIAA1055 protein
hfer3019	4C	XM_216866				

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hfer3022	4C	NM_030974	NP_112236	81858	DKFZP434N1923	hypothetical protein DKFZp434N1923
hfer3043	4C	NM_006711	NP_542161	10921	RNPS1	RNA binding protein S1, serine-rich domain
hfer3149	4C	NM_018579	NP_061049	51312	MSCP	mitochondrial solute carrier protein
hfer3180	4C	NM_002305	NP_002296	3956; 57026; 23616	LGALS1	lectin, galactoside-binding, soluble, 1 (galectin)
hfer3256	4C	NM_016598	NP_057682	51304	ZDHHHC3	zinc finger, DHHHC domain containing 3
hfer3404	4C	NM_020873	NP_065924	57633	LRRN1	leucine rich repeat neuronal 1
hfer3413	4C	NM_016270	NP_057354	10365	KLF2	Kruppel-like factor 2 (lung)
hfer3436	4C	NM_003088	NP_003079	6624	FSCN1	fascin homolog 1, actin-bundling protein (Strongy)
hfer3441	4C	NM_005016	NP_114366	5094	PCBP2	poly(rC) binding protein 2
hfer3500	4C	NM_006310	NP_006301	9520	NPEPPS	aminopeptidase puromycin sensitive
hfer3592	4C	NM_016223	NP_057307	29763	PACSN3	protein kinase C and casein kinase substrate in ne
hfer3634	4C	NM_005354	NP_005345	3727	JUNND	jun D proto-oncogene
hfer3928	4C	NM_006070	NP_006061	10342	TFG	TRK-fused gene
hfer4114	4C	NM_006086	NP_006077	10381	TUBB4	tubulin, beta, 4
hfer4423	4C	NM_006640	NP_006631	10801	MSF	MLL septin-like fusion
hfer4444	4C	NM_001634	NP_001625	262	AMD1	adenosylmethionine decarboxylase 1
hfer4462	4C	NM_002388	NP_002379	4172	MCM3	MCM3 minichromosome maintenance deficient 3 (S. ce
hfer4488	4C	NM_002205	NP_002196	3678	ITGA5	integrin, alpha 5 (fibronectin receptor, alpha pol
hfer4489	4C	NM_044472	NP_426359	998	CDC42	cell division cycle 42 (GTP binding protein, 25kDa
hfer5009	4C	NM_003973	NP_003964	9045	RPL14	ribosomal protein L14
hfer5150	4C	NM_006307	NP_006298	8406	SRPX	sushi-repeat-containing protein, X-linked
hfer5181	4C	NM_004542	NP_004533	4696	NDUFA3	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex
hfer5207	4C	NM_006907	NP_722546	5831	PYCR1	pyrroline-5-carboxylate reductase 1
hfer5220	4C	NM_016581	NP_057665	51295	SITPEC	likely ortholog of mouse signaling intermediate in

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hifer5228	4C	NM_017991	NP_060461	55683	FLJ10081	hypothetical protein FLJ10081
hifer5237	4C	NM_021738	NP_068506	6840	SVIL	supervillin
hifer5383	4C	NM_002398	NP_002389	4211	MEIS1	Meis1, myeloid ecotropic viral integration site 1
hifer5473	4C	NM_021128	NP_066951	5441	POLR2L	polymerase (RNA) II (DNA directed) polypeptide L,
hifer5604	4C	NM_002789	NP_002780	5685	PSMA4	proteasome (prosome, macropain) subunit, alpha typ
hifer5691	4C	NM_004697	NP_004688	9128	PRPF4	PRP4 pre-mRNA processing factor 4 homolog (yeast)
hifer5695	4C	NM_144584	NP_653185	113802	FLJ30525	hypothetical protein FLJ30525
hifer5905	4C	NM_003286	NP_003277	7150	TOP1	topoisomerase (DNA) I
hifer5919	4C	NM_145914	NP_666019	7589	ZNF38	zinc finger protein 38
hifer5987	4C	NM_001005	NP_000996	6188; 6079; 114599	RPS3	ribosomal protein S3
hifer6164	4C	NM_003505	NP_003496	8321	FZD1	frizzled homolog 1 (Drosophila)
hifer6256	4C	NM_144498	NP_653081	9885	OSBPL2	oxysterol binding protein-like 2
hifer6366	4C	NM_005493	NP_005484	10048	RANBP9	RAN binding protein 9
hifer6406	4C	NM_019105	NP_115859	7148	TNXB	tenascin XB
hifer6468	4C	NM_020404	NP_065137	57124	CD164L1	CD164 sialomucin-like 1
hifer6486	4C	NM_003977	NP_003968	9049	AIP	aryl hydrocarbon receptor interacting protein
hifer6501	4C	NM_014718	NP_055533	9746	CLSTN3	calysntenin 3
hifer6509	4C	NM_005397	NP_005388	5420	PODXL	podocalyxin-like
hifer6640	4C	NM_020830	NP_065881	57590	WDFY1	WD repeat and FYVE domain containing 1
hifer6651	4C	NM_005809	NP_859428	7001	PRDX2	peroxiredoxin 2
hifer6680	4C	NM_006058	NP_006049	10318	TNIP1	TNFAIP3 interacting protein 1
hifer6687	4C	NM_001997	NP_001988	2197	FAU	Finkel-Biskis-Reilly murine sarcoma virus (FBR-MuS
hifer6700	4C	NM_012394	NP_036526	5202	PFDN2	prefoldin 2
hifer6716	4C	NM_000517	NP_000508	3040	HBA2	hemoglobin, alpha 2
hifer6931	4C	NM_032548	NP_742025	80325	ABTB1	ankyrin repeat and BTB (POZ) domain containing 1

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hfer6932	4C	NM_001216	NP_001207	768	CA9	carbonic anhydrase IX
hfer7966	4C	NM_173576	NP_775847	283078	C10orf48	chromosome 10 open reading frame 48
hfer7968	4C	NM_003781	NP_149359	8706	B3GALT3	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase,
hfer8902	4C	NM_198335	NP_938149	23193; 80789	GANAB	glucosidase, alpha; neutral AB
hfer9290	4C	NM_004584	NP_004575	5883	RAD9A	RAD9 homolog A (S. pombe)
hfer9549	4C	NM_000946	NP_005585	4666; 5557	NACA	nascent-polypeptide-associated complex alpha polyp
hfer9613	4C	NM_004204	NP_683721	9091	PIGQ	phosphatidylinositol glycan, class Q
mioa0104	4C	NM_198402	NP_940684	201562	PTPLB	protein tyrosine phosphatase-like (proline instead
mioa0132	4C	NM_016139	NP_057223	51142	CHCHD2	coiled-coil-helix-coiled-coil-helix domain contain
mioa0152	4C	NM_002890	NP_072179	5921	RASA1	RAS p21 protein activator (GTPase activating prote
mioa0204	4C	NM_001554	NP_001545	3491	CYR61	cysteine-rich, angiogenic inducer, 61
mioa0246	4C	NM_033022	NP_148982	6229; 399785	RPS24	ribosomal protein S24
mioa0308	4C	NM_014394	NP_055209	27069	GHITM	growth hormone inducible transmembrane protein
mioa0311	4C	NM_005398	NP_005389	5507	PPP1R3C	protein phosphatase 1, regulatory (inhibitor) subu
mioa0328	4C	NM_014184	NP_054903	29097	HSPC163	HSPC163 protein
mioa0380	4C	NM_016482	NP_057604	51759; 1861	C9orf78	chromosome 9 open reading frame 78
mioa0407	4C	NM_006457	NP_006448	10611	LIM	LIM protein (similar to rat protein kinase C-bindi
mioa0494	4C	NM_021190	NP_067013	58155	PTBP2	polypyrimidine tract binding protein 2
mioa0535	4C	NM_019026	NP_061899	54499	LOC54499	putative membrane protein
mioa0577	4C	NM_000574	NP_000565	1604	DAF	decay accelerating factor for complement (CD55, Cr
mioa0582	4C	NM_145297	NP_660340	199777	ZNF626	zinc finger protein 626
mioa0595	4C	NM_000351	NP_000342	412	STS	steroid sulfatase (microsomal), arylsulfatase C, i
mioa0647	4C	NM_021122				
mioa0707	4C	NM_005175	NP_005166	516	ATP5G1	ATP synthase, H <sup>+</sup> transporting, mitochondrial F0 co
mioa0826	4C	NM_002797	NP_002788	5693	PSMB5	proteasome (prosome, macropain) subunit, beta type

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mioa0862	4C	NM_001442	NP_001433	2167	FABP4	fatty acid binding protein 4, adipocyte
mioa0890	4C	NM_024342	NP_077318	2909	GRLF1	glucocorticoid receptor DNA binding factor 1
mioa0909	4C	NM_001000	NP_000991	6170	RPL39	ribosomal protein L39
mioa1015	4C	NM_172178	NP_751918	28977	MRPL42	mitochondrial ribosomal protein L42
mioa1055	4C	NM_016106	NP_878255	23256	SCFD1	sec1 family domain containing 1
mioa1058	4C	NM_012257	NP_036389	26959	HBP1	HMG-box transcription factor 1
mioa1062	4C	NM_002803	NP_002794	5701	PSMC2	proteasome (prosome, macropain) 26S subunit, ATPas
mioa1071	4C	NM_032869	NP_116258	84955	CML66	chronic myelogenous leukemia tumor antigen 66
mioa1079	4C	NM_014178	NP_054897	29091	STXBp6	synixin binding protein 6 (amisyn)
mioa1097	4C	NM_000089	NP_000080	1278	COL1A2	collagen, type I, alpha 2
mioa1193	4C	NM_004719	NP_004710	9169	SFRS2IP	splicing factor, arginine/serine-rich 2, interacti
mioa1276	4C	NM_014382	NP_055197	27032	ATP2C1	ATPase, Ca++ transporting, type 2C, member 1
mioa1279	4C	NM_152692	NP_689905	29071	CIGALT2	core 1 UDP-galactose:N-acetylglactosamine-alpha-R
mioa1285	4C	NM_174979	NP_003849	8812; 64758; 317762	CCNK	cyclin K
mioa1324	4C	NM_033657	NP_387506	7818	DAP3	death associated protein 3
mioa1337	4C	NM_014380	NP_996800	27018	NGFRAP1	nerve growth factor receptor (TNFRSF16) associated
mioa1354	4C	NM_016410	NP_057494	51510	C9orf83	chromosome 9 open reading frame 83
mioa1380	4C	NM_000602	NP_000593	5054	SERPINE1	serine (or cysteine) proteinase inhibitor, clade E
mioa1427	4C	NM_015317	NP_056132	23369	PUM2	pumilio homolog 2 (Drosophila)
mioa1445	4C	NM_000255	NP_000246	4594	MUT	methylmalonyl Coenzyme A mutase
mioa1473	4C	NM_024010	NP_076915	4552	MTRR	5-methyltetrahydrofolate-homocysteine methyltransf
mioa1494	4C	NM_012120	NP_036252	23607	CD2AP	CD2-associated protein
mioa1520	4C	NM_002845	NP_002836	5797; 80041	PTPRM	protein tyrosine phosphatase, receptor type, M
mioa1531	4C	NM_144591	NP_653192	119032	C10orf32	chromosome 10 open reading frame 32

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mioa1585 4C	NM_014671				
mioa1621 4C	NM_003051	NP_003042	6566	SLC16A1	solute carrier family 16 (monocarboxylic acid tran
mioa1626 4C	NM_006708	NP_006699	2739	GLO1	glyoxalase I
mioa1660 4C	NM_006432	NP_006423	10577	NPC2	Niemann-Pick disease, type C2
mioa1662 4C	NM_003590	NP_003581	8452	CUL3	cullin 3
mioa1953 4C	NM_003467	NP_003458	7852	CXCR4	chemokine (C-X-C motif) receptor 4
mioa1971 4C	NM_003336	NP_861442	7319	UBE2A	ubiquitin-conjugating enzyme E2A (RAD6 homolog)
mioa2013 4C	NM_016146	NP_057230	51399	TRAPPC4	trafficking protein particle complex 4
mioa2072 4C	NM_006870	NP_006861	11034	DSTN	destin (actin depolymerizing factor)
mioa2156 4C	NM_001010	NP_001001	6194	RPS6	ribosomal protein S6
mioa2158 4C	NM_007167	NP_660353	9204	ZNF258	zinc finger protein 258
mioa2173 4C	NM_005016	NP_114366	5094	PCBP2	poly(rC) binding protein 2
mioa2268 4C	NM_005917	NP_005908	4190	MDH1	malate dehydrogenase 1, NAD (soluble)
mioa2319 4C	NM_015932	NP_057016	51371	C13orf12	chromosome 13 open reading frame 12
mioa2327 4C	NM_005752	NP_005743	10143	CLECSF1	C-type (calcium dependent, carbohydrate-recognition
mioa2333 4C	NM_015874	NP_976029	3516	RBPSUH	recombining binding protein suppressor of hairless
mioa2413 4C	NM_015958	NP_057042	51611; 54833	CGI-30	CGI-30 protein
mioa2421 4C	NM_173578	NP_775849	283135	FLJ90834	hypothetical protein FLJ90834
mioa2475 4C	NM_032869	NP_116258	84955	CML66	chronic myelogenous leukemia tumor antigen 66
mioa2478 4C	NM_014300	NP_055115	23478; 157708	SPC18	signal peptidase complex (18kD)
mioa2522 4C	NM_014142	NP_054861	11164	NUDT5	nudix (nucleoside diphosphate linked moiety X)-typ
mioa2536 4C	NM_001343	NP_001334	1601	DAB2	disabled homolog 2, mitogen-responsive phosphoprot
mioa2537 4C	NM_003909	NP_003900	8895	CPNE3	copine III
mioa2580 4C	NM_001386	NP_001377	1808	DPYSL2	dihydropyrimidinase-like 2
mioa2652 4C	NM_006469	NP_006460	10625	IVNS1ABP	influenza virus NS1A binding protein

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mioa2788 4C	NM_005251	NP_005242	2303	FOXO2	forkhead box C2 (MFH-1, mesenchyme forkhead 1)
mioa2818 4C	NM_016079	NP_057163	51652	VP524	vacuolar protein sorting 24 (yeast)
mioa2851 4C	NM_022731	NP_073568	64710	NUCKS	nuclear ubiquitous casein kinase and cyclin-depend
mioa3080 4C	NM_005903	NP_005894	4090	MADH5	MAD, mothers against decapentaplegic homolog 5 (Dr
mioa3342 4C	NM_019006	NP_061879	54469	AWP1	protein associated with PRK1
mioa3367 4C	NM_014751	NP_055566	9788	MTSS1	metastasis suppressor 1
mioa3395 4C	NM_003135	NP_003126	6728; 7310	SRP19	signal recognition particle 19kDa
mioa3439 4C	NM_014039	NP_054758	28970	PTD012	PTD012 protein
mioa3471 4C	NM_016472	NP_057556	51527	C14orf129	chromosome 14 open reading frame 129
mioa3514 4C	NM_003690	NP_003681	8575	PRKRA	protein kinase, interferon-inducible double strand
mioa3620 4C	NM_005625	NP_005616	6386	SDCBP	syndecan binding protein (syntenin)
mioa3629 4C	NM_014624	NP_055439	6277; 400825	S100A6	S100 calcium binding protein A6 (calyculin)
mioa3646 4C	NM_001686	NP_001677	506	ATP5B	ATP synthase, H+ transporting, mitochondrial F1 co
mioa3786 4C	NM_014713	NP_055528	9741	LAPTM4A	lysosomal-associated protein transmembrane 4 alpha
mioa3799 4C	NM_003128	NP_842565	6711; 56969	SPTBN1	spectrin, beta, non-erythrocytic 1
mioa3812 4C	NM_013286	NP_037418	29890	HUMAGCGB	chromosome 3p21.1 gene sequence
mioa3913 4C	NM_016061	NP_057145	51646	CGI-127	yippee protein
mioa3923 4C	NM_003613	NP_003604	8483	CILP	cartilage intermediate layer protein, nucleotide p
mioa3939 4C	NM_018158	NP_060628	22950	SLC4A1AP	solute carrier family 4 (anion exchanger), member
mioa3944 4C	NM_000300	NP_000291	5320	PLA2G2A	phospholipase A2, group IIA (platelets, synovial f
mioa3963 4C	NM_006834	NP_006825	10981	RAB32	RAB32, member RAS oncogene family
mioa4009 4C	NM_002734	NP_997637	5573	PRKARIA	protein kinase, cAMP-dependent, regulatory, type I
mioa4014 4C	NM_021203	NP_067026	58477	SRPRB	signal recognition particle receptor, B subunit
mioa4064 4C	NM_032940	NP_116558	5432	POLR2C	polymerase (RNA) II (DNA directed) polypeptide C,
mioa4076 4C	NM_020154	NP_064539	56851	LOC56851	chromosome 15 hypothetical ATG/GTP binding protein

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mioa4135	4C	NM_173215	NP_775322	10725	NFAT5	nuclear factor of activated T-cells 5, tonicity-re
mioa4196	4C	NM_183419	NP_904355	25897	RNF19	ring finger protein 19
mioa4241	4C	NM_000194	NP_000185	3251	HPRT1	hypoxanthine phosphoribosyltransferase 1 (Lesch-Ny
mioa4285	4C	NM_005923	NP_005914	4217	MAP3K5	mitogen-activated protein kinase kinase 5
mioa4321	4C	NM_000112	NP_000103	1836	SLC26A2	solute carrier family 26 (sulfate transporter), me
mioa4548	4C	NM_016357	NP_057441	51474	EPLIN	epithelial protein lost in neoplasm beta
mioa4552	4C	NM_014752	NP_055567	9789	KIAA0102	KIAA0102 gene product
mioa4636	4C	NM_019555	NP_062455	50650	ARHGEF3	Rho guanine nucleotide exchange factor (GEF) 3
mioa4667	4C	NM_001799	NP_001790	1022	CDK7	cyclin-dependent kinase 7 (MO15 homolog, Xenopus 1
mioa4721	4C	NM_006349	NP_006340	10467	ZNHT1	zinc finger, HIT domain containing 1
mioa4738	4C	NM_002370	NP_002361	4116	MAGOH	mago-nashi homolog, proliferation-associated (Dros
mioa5059	4C	NM_020166	NP_064551	56922	MCCCI	methylecrotonoyl-Coenzyme A carboxylase 1 (alpha)
mioa5085	4C	NM_006620	NP_006611	10767	HBSIL	HBSI-like (S. cerevisiae)
mioa5097	4C	NM_181795	NP_861460	5570	PKIB	protein kinase (cAMP-dependent, catalytic) inhibit
mioa5326	4C	NM_004374	NP_004365	1345	COX6C	cytochrome c oxidase subunit VIc
mioa5355	4C	NM_000096	NP_000087	1356	CP	ceruloplasmin (ferroxidase)
mioa5461	4C	NM_021999	NP_068839	9445	ITM2B	integral membrane protein 2B
mioa5468	4C	NM_005909	NP_114399	4131	MAP1B	microtubule-associated protein 1B
mioa5531	4C	NM_215285		25703	Rbp4	retinol binding protein 4
mioa5586	4C	NM_017787	NP_060257	54838	C10orf26	chromosome 10 open reading frame 26
mioa5614	4C	NM_031412	NP_113600	23710	GABARAPL1	GABA(A) receptor-associated protein like 1
mioa5691	4C	NM_003415	NP_694422	10795	ZNF268	zinc finger protein 268
mioa5692	4C	NM_043865				
mioa5695	4C	NM_002807	NP_002798	5707	PSMD1	proteasome (prosome, macropain) 26S subunit, non-A
mioa5696	4C	NM_001780	NP_001771	967	CD63	CD63 antigen (melanoma 1 antigen)

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mioa5773	4C	NM_001799	NP_001790	1022	CDK7	cyclin-dependent kinase 7 (MO15 homolog, Xenopus l
mioa5836	4C	NM_007115	NP_009046	7130	TNFAIP6	tumor necrosis factor, alpha-induced protein 6
mioa5902	4C	NM_016331	NP_057415	51193	ANC_2H01	zinc finger protein ANC_2H01
mioa6035	4C	NM_004898	NP_004889	9575	CLOCK	clock homolog (mouse)
mioa6064	4C	NM_032263	NP_115639	84223	DKFZp434B27	hypothetical protein DKFZp434B27
mioa6091	4C	NM_003129	NP_003120	6713	SQLE	squalene epoxidase
mioa6093	4C	NM_002863	NP_002854	5836	PYGL	phosphorylase, glycogen: liver (Hers disease, glyc
mioa6130	4C	NM_152583	NP_689796	158947	MGC40053	hypothetical protein MGC40053
mioa6174	4C	NM_006393	NP_998734	10529	NEBL	nebulette
mioa6268	4C	NM_006609	NP_006600	10746	MAP3K2	mitogen-activated protein kinase kinase 2
mioa6418	4C	NM_003264	NP_003255	7097	TLR2	toll-like receptor 2
mioa6476	4C	NM_006895	NP_008826	3176	HNMT	histamine N-methyltransferase
mioa6582	4C	NM_005520	NP_005511	3187	HNRPH1	heterogeneous nuclear ribonucleoprotein H1 (H)
mioa6621	4C	NM_021252	NP_067075	22931	RAB18	RAB18, member RAS oncogene family
mioa6721	4C	NM_002473	NP_002464	4627	MYH9	myosin, heavy polypeptide 9, non-muscle
mioa6731	4C	NM_134264	NP_599027	26118	WSB1	WD repeat and SOCS box-containing 1
mioa6738	4C	NM_005252	NP_005243	2353	FOS	v-fos FBJ murine osteosarcoma viral oncogene homol
mioa6739	4C	NM_015984	NP_057068	51377	UCHL5	ubiquitin carboxyl-terminal hydrolase L5
mioa6854	4C	NM_138799	NP_620154	129642	LOC129642	hypothetical protein BC016005
mioa6913	4C	NM_004551		114971; 4722	LOC114971	hypothetical protein LOC114971
mioa7015	4C	NM_001025	NP_001016	6228	RPS23	ribosomal protein S23
mioa7140	4C	NM_004840	NP_004831	9459	ARHGEF6	Rac/Cdc42 guanine nucleotide exchange factor (GEF)
mioa7299	4C	NM_004247	NP_004238	9343	U5-116KD	U5 snRNP-specific protein, 116 kD
mioa7317	4C	NM_000163	NP_000154	2690	GHR	growth hormone receptor
mioa7323	4C	NM_134442	NP_604391	1385	CREB1	cAMP responsive element binding protein 1

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mioa7602	4C	NM_178191	NP_835498	93974	ATPIFI	ATPase inhibitory factor 1
mioa8314	4C	NM_018434	NP_060904	55819	RNF130	ring finger protein 130
mioa8539	4C	NM_004951	NP_004942	1880	EBI2	Epstein-Barr virus induced gene 2 (lymphocyte-spec
mioa8548	4C	NM_198258	NP_997705	1876	E2F6	E2F transcription factor 6
mioa8647	4C	NM_020357	NP_065090	57092	PCNP	PEST-containing nuclear protein
mioa8773	4C	NM_006304	NP_997386	401388; 7979; 402566	FLJ42280	FLJ42280 protein
mioa8774	4C	NM_138931	NP_620309	604; 389185	BCL6	B-cell CLL/lymphoma 6 (zinc finger protein 51)
mioa8796	4C	NM_006923	NP_008854	6388	SDF2	stromal cell-derived factor 2
mioa8811	4C	NM_024529	NP_078805	79577	HRPT2	hyperparathyroidism 2 (with jaw tumor)
mioa8851	4C	NM_000204	NP_000195	3426	IF	I factor (complement)
mioa8852	4C	NM_001614	NP_001605	71	ACTG1	actin, gamma 1
mioa8864	4C	NM_004673	NP_004664	9068	ANGPTL1	angiotensinogen-like 1
mioa8886	4C	NM_032012	NP_114401	23731	C9orf5	chromosome 9 open reading frame 5
mioa8912	4C	NM_012218	NP_703194	3609; 147727	ILF3	interleukin enhancer binding factor 3, 90kDa
mioa8946	4C	NM_005817	NP_005808	10226	M6PRBP1	mannose-6-phosphate receptor binding protein 1
mioa8952	4C	NM_001431	NP_001422	2037	EPB41L2	erythrocyte membrane protein band 4.1-like 2
mioa8970	4C	NM_014236	NP_055051	8443	GNPAT	glyceronephosphate O-acyltransferase
mioa8984	4C	NM_001012	NP_001003	6202; 94161	RPS8	ribosomal protein S8
mioa8998	4C	NM_002709	NP_996760	5500	PPP1CB	protein phosphatase 1, catalytic subunit, beta iso
mioa9007	4C	NM_032121	NP_115497	84061	DKFZp564K1 42	implantation-associated protein
mioa9033	4C	NM_024292	NP_077268	59286; 5300	UBL5	ubiquitin-like 5
mioa9060	4C	NM_015497	NP_056312	25963	DKFZP564G2 022	DKFZP564G2022 protein
mioa9093	4C	NM_172164	NP_751896	4678	NASP	nuclear autoantigenic sperm protein (histone-bindi

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miao9154	4C	NM_001884	NP_001875	1404	HAPLN1	hyaluronan and proteoglycan link protein 1
miao9179	4C	NM_006585				
miao9294	4C	NM_139069	NP_620709	5601	MAPK9	mitogen-activated protein kinase 9
miao9473	4C	NM_133493	NP_598000	135228	CD109	CD109 antigen (Gov platelet alloantigens)
miao9505	4C	NM_006541	NP_006532	10539	TXNL2	thioredoxin-like 2
miao9510	4C	NM_005857	NP_005848	10269	ZMPSTE24	zinc metalloproteinase (STE24 homolog, yeast)
miao9581	4C	NM_005998	NP_005989	7203	CCT3	chaperonin containing TCP1, subunit 3 (gamma)
miao9630	4C	NM_000534	NP_000525	5378	PMS1	PMS1 postmeiotic segregation increased 1 (S. cerev
miao9649	4C	NM_021645	9724	K1AA0266	K1AA0266	
miao9666	4C	NM_031461	NP_113649	83690	LOC83690	CocoaCrisp
miao9717	4C	NM_018368	NP_060838	55788	C6orf209	chromosome 6 open reading frame 209
miao9792	4C	NM_001067	NP_001058	7153	TOP2A	topoisomerase (DNA) II alpha 170kDa
miao9831	4C	NM_006463	NP_998787	10617	STAMBP	STAM binding protein
miao9891	4C	NM_003972	NP_003963	9044	BTAf1	BTAf1 RNA polymerase II, B-TFIID transcription fac
miao9935	4C	NM_005813	NP_005804	23683	PRKCN	protein kinase C, nu
miob0154	4C	NM_018442	NP_060912	55827	PC326	PC326 protein
miob0167	4C	NM_016474	NP_057558	51244	LOC51244	hypothetical protein LOC51244
miob0178	4C	NM_006519	NP_006510	6993	TCTEL1	t-complex-associated-testis-expressed 1-like 1
miob0189	4C	NM_014938	NP_055753	22877	MONDOA	Mlx interactor
miob0202	4C	NM_003768	NP_003759	8682; 844	PEA15	phosphoprotein enriched in astrocytes 15
miob0207	4C	NM_152749	NP_689962	222255	MGC33190	hypothetical protein MGC33190
miob0361	4C	NM_013444	NP_038472	29978	UBQLN2	ubiquilin 2
miob0496	4C	NM_004719	NP_004710	9169	SFRS2IP	splicing factor, arginine/serine-rich 2, interacti
miob0865	4C	NM_007126	NP_009057	7415	VCP	valosin-containing protein
miob0877	4C	NM_004663	NP_004654	8766	RAB11A	RAB11A, member RAS oncogene family

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miob0926	4C	NM_017993	NP_060463	55068	FLJ10094	hypothetical protein FLJ10094
miob0939	4C	NM_003566	NP_003557	8411	EEA1	early endosome antigen 1, 162kD
miob0973	4C	NM_031419	NP_113607	64332	MAIL	molecule possessing ankryrin repeats induced by IIP
miob0974	4C	NM_003721	NP_604389	8625	RFXANK	regulatory factor X-associated ankryrin-containing
miob1001	4C	NM_000090	NP_000081	1281	COL3A1	collagen, type III, alpha 1 (Ehlers-Danlos syndrome)
miob1016	4C	NM_000900	NP_000891	4256	MGP	matrix Gla protein
miob1062	4C	NM_022977	NP_075266	2182	ACSL4	acyl-CoA synthetase long-chain family member 4
miob1115	4C	NM_000297	NP_000288	5311	PKD2	polycystic kidney disease 2 (autosomal dominant)
miob1231	4C	NM_052853	NP_443085	90956	ADCK2	aarf domain containing kinase 2
miob1326	4C	NM_015453	NP_056268	25917	DKFZP434F091	DKFZP434F091 protein
miob1337	4C	NM_003246	NP_003237	7057	THBS1	thrombospondin 1
miob1493	4C	NM_014684				
miob1506	4C	NM_003480	NP_003471	8076	MFAP5	microfibrillar associated protein 5
miob1734	4C	NM_000582	NP_000573	6696	SPP1	secreted phosphoprotein 1 (osteopontin, bone sialo
miob1789	4C	NM_004877	NP_004868	9535	GMFG	glia maturation factor, gamma
miob2067	4C	NM_173474	NP_775745	123803	NTAN1	N-terminal asparagine amidase
miob2227	4C	NM_003662	NP_003653	8544	PIR	Pirin
miob2375	4C	NM_005324	NP_005315	3021	H3F3B	H3 histone, family 3B (H3.3B)
miob2492	4C	NM_006642	NP_006633	10806	SDCCAG8	serologically defined colon cancer antigen 8
miob2687	4C	NM_018297	NP_060767	55768	NGLY1	N-glycanase 1
miob2700	4C	NM_021818	NP_068590	60485	SAV1	salvador homolog 1 (Drosophila)
miob2705	4C	NM_173082	NP_775105	257218	SHPRH	SNF2 histone linker PHD RING helicase
miob2743	4C	NM_005534	NP_005525	3460	IFNGR2	interferon gamma receptor 2 (interferon gamma tran
miob2836	4C	NM_004079	NP_004070	1520	CTSS	cathepsin S
miob2855	4C	NM_080425	NP_536351	2778	GNAS	GNAS complex locus

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miob3044 4C	NM_007153	NP_003414	7594; 7757	ZNF43	zinc finger protein 43 (HTF6)
miob3131 4C	NM_001718	NP_001709	654	BMP6	bone morphogenetic protein 6
miob3348 4C	NM_004966	NP_004957	3185	HNRPF	heterogeneous nuclear ribonucleoprotein F
miob3396 4C	NM_002450				
miob3411 4C	NM_014210	NP_055025	2123	EV12A	ecotropic viral integration site 2A
miob3426 4C	NM_003880	NP_937882	8838	WISP3	WNT1 inducible signaling pathway protein 3
miob3443 4C	NM_022170	NP_114381	7458	WBSCR1	Williams-Beuren syndrome chromosome region 1
miob3461 4C	NM_006010	NP_006001	7873	ARMET	arginine-rich, mutated in early stage tumors
miob3471 4C	NM_004631	NP_150643	7804	LRP8	low density lipoprotein receptor-related protein 8
miob3477 4C	NM_002512	NP_002503	4831	NME2	non-metastatic cells 2, protein (NM23B) expressed
miob3531 4C	NM_003473	NP_003464	8027	STAM	signal transducing adaptor molecule (SH3 domain an
miob3684 4C	NM_017944	NP_060414	55031	USP47	ubiquitin specific protease 47
miob3690 4C	NM_014751	NP_055566	9788	MTSS1	metastasis suppressor 1
miob3696 4C	NM_005406	NP_005397	6093	ROCK1	Rho-associated, coiled-coil containing protein kin
miob3763 4C	NM_145686	NP_663720	9448	MAP4K4	mitogen-activated protein kinase kinase kin
miob3898 4C	NM_006930	NP_733779	6500	SKP1A	S-phase kinase-associated protein 1A (p19A)
miob3911 4C	NM_005596	NP_005587	4781	NFIB	nuclear factor I/B
miob3938 4C	XM_087525				
miob3953 4C	NM_014372	NP_055187	26994	RNF11	ring finger protein 11
miob3982 4C	NM_006743	NP_006734	5935	RBM3	RNA binding motif (RNP1, RRM) protein 3
miob4037 4C	NM_014177	NP_054896	29090	HSPC154	HSPC154 protein
miob4055 4C	NM_007203	NP_443749	114299; 11217	PALM2	paralectmin 2
miob4058 4C	NM_004357	NP_620599	977	CD151	CD151 antigen
miob4157 4C	NM_016436	NP_057520	51230	C20orf104	chromosome 20 open reading frame 104
miob4238 4C	NM_006335	NP_006326	10440	TIMM17A	translocase of inner mitochondrial membrane 17 hom



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miob4475	4C	NM_005727	NP_005718	10103	TSPAN-1	tetraspan 1
miob4570	4C	NM_003100	NP_003091	6643	SNX2	sorting nexin 2
miob4574	4C	NM_012086	NP_036218	9330	GTF3C3	general transcription factor IIIc, polypeptide 3,
miob4593	4C	NM_001658	NP_001649	375	ARF1	ADP-ribosylation factor 1
miob4673	4C	NM_007114	NP_009045	7110	TMF1	TATA element modulatory factor 1
miob4712	4C	NM_005248	NP_005239	2268	FCGR	Gardner-Rasheed teline sarcoma viral (v-fgr) oncog
miob4743	4C	NM_080424	NP_536349	3431	SP110	SP110 nuclear body protein
miob4793	4C	NM_016258	NP_057342	51441	HGRG8	high-glucose-regulated protein 8
miob4836	4C	NM_002504	NP_667345	4799	NFX1	nuclear transcription factor, X-box binding 1
miob4860	4C	NM_007147	NP_009078	7728	ZNF175	zinc finger protein 175
miob4867	4C	NM_032308	NP_115684	84268	MGC4189	hypothetical protein MGC4189
miob4876	4C	NM_001844	NP_149162	1280; 4670	COL2A1	collagen, type II, alpha 1 (primary osteoarthritis
miob4956	4C	NM_005869	NP_005860	10283	SDCCAG10	serologically defined colon cancer antigen 10
miob4975	4C	NM_000204	NP_000195	3426	IF	I factor (complement)
miob5016	4C	NM_181746	NP_859530	29956	LASS2	LAG1 longevity assurance homolog 2 (S. cerevisiae)
miob5412	4C	NM_005437	NP_005428	8031	NCOA4	nuclear receptor coactivator 4
miob5495	4C	NM_003542	NP_003531	8361; 8364	HIST1H4F	histone 1, H4f
miob5646	4C	NM_003599	NP_852001	8464	SUP13H	suppressor of Ty 3 homolog (S. cerevisiae)
miob5675	4C	NM_003630	NP_003621	8504	PEX3	peroxisomal biogenesis factor 3
miob5699	4C	NM_012257	NP_036389	26959	HBP1	HMG-box transcription factor 1
miob5736	4C	NM_005433	NP_005424	7525	YES1	v-yes-1 Yamaguchi sarcoma viral oncogene homolog 1
miob6223	4C	NM_007038	NP_008969	11096	ADAMTS5	a disintegrin-like and metalloprotease (reprolysin
miob6372	4C	NM_007158	NP_009089	7812	DIS155E	NRAS-related gene
miob6373	4C	NM_016289	NP_057373	51719	MO25	MO25 protein
miob6419	4C	NM_000518	NP_000509	3043	HBB	hemoglobin, beta

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miob6430 4C	NM_006559	NP_006550	10657	KHDRBS1	KH domain containing, RNA binding, signal transduc
miob6437 4C	NM_021227	NP_067050	58505	DC2	DC2 protein
miob6456 4C	NM_001412	NP_001403	1964	EIF1A	eukaryotic translation initiation factor 1A
miob6562 4C	NM_002416	NP_002407	4283	CXCL9	chemokine (C-X-C motif) ligand 9
miob6595 4C	NM_018448	NP_060918	55832	TIP120A	TBP-interacting protein
miob6610 4C	NM_001885	NP_001876	1410	CRYAB	crystallin, alpha B
miob6797 4C	NM_004735	NP_004726	9208; 375316	LRRIPI	leucine rich repeat (in FLII) interacting protein
miob6821 4C	NM_019006	NP_061879	54469	AWP1	protein associated with PRK1
miob6881 4C	NM_007285	NP_009216	11345	GABARAPL2	GABA(A) receptor-associated protein-like 2
miob6904 4C	NM_182851	NP_878272	57820	CCNB1IP1	cyclin B1 interacting protein 1
miob6988 4C	NM_006997	NP_996744	10579	TACC2	transforming, acidic coiled-coil containing protei
miob7109 4C	NM_001414	NP_001405	1967	EIF2B1	eukaryotic translation initiation factor 2B, subun
miob7156 4C	NM_001356	NP_076829	1654	DDX3X	DEAD (Asp-Glu-Ala-Asp) box polypeptide 3, X-linked
miob7309 4C	NM_002669	NP_002660	5356	PLRG1	pleiotropic regulator 1 (PRL1homolog, Arabidopsis)
miob7373 4C	NM_145808	NP_665807	136319	MTPN	myotrophin
miob7391 4C	NM_024071	NP_076976	79038	ZFYVE21	zinc finger, FYVE domain containing 21
miob7638 4C	NM_005261	NP_859053	2669	GEM	GTP binding protein overexpressed in skeletal musc
miob8143 4C	NM_021243				
miob8214 4C	NM_018555	NP_061025	55422	ZNF331	zinc finger protein 331
miob8320 4C	NM_003860	NP_003851	8815	BANF1	barrier to autointegration factor 1
miob8341 4C	NM_012308	NP_036440	22992	FBXL11	F-box and leucine-rich repeat protein 11
miob8572 4C	NM_152852	NP_690591	64231	MS4A6A	membrane-spanning 4-domains, subfamily A, member 6
miob8609 4C	NM_015947	NP_057031	51008	ASCC1	activating signal cointegrator 1 complex subunit 1
miob8657 4C	NM_002719	NP_848703	5527	PPP2R5C	protein phosphatase 2, regulatory subunit B (B56),
miob8694 4C	NM_138798	NP_620153	129531	LOC129531	hypothetical protein BC018453

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miob8711 4C	NM_016322	NP_057406	51552	RAB14	RAB14, member RAS oncogene family
miob8812 4C	NM_014887	NP_055702	10443	PFAP5	phosphonofornate immuno-associated protein 5
miob8932 4C	NM_000104	NP_000095	1545	CYP1B1	cytochrome P450, family 1, subfamily B, polypeptid
miob8947 4C	NM_005594	NP_005585	4666; 5557	NACA	nascent-polypeptide-associated complex alpha polyp
miob9052 4C	NM_021201	NP_996823	58475	MS4A7	membrane-spanning 4-domains, subfamily A, member 7
miob9065 4C	NM_031885	NP_114091	583	BBS2	Bardet-Biedl syndrome 2
miob9121 4C	NM_018229	NP_060699	55745	C14orf108	chromosome 14 open reading frame 108
miob9185 4C	NM_015275	NP_056090	23325	KIAA1033	KIAA1033 protein
miob9284 4C	NM_001443	NP_001434	2168	FABP1	fatty acid binding protein 1, liver
miob9336 4C	NM_013386	NP_998816	29957	DKFZp586G0123	calcium-binding transporter
miob9393 4C	NM_004404	NP_004395	4735; 55917	NEDD5	neural precursor cell expressed, developmentally d
miob9848 4C	NM_002725	NP_958505	5549	PRELP	proline arginine-rich end leucine-rich repeat prot
miob9907 4C	NM_006606	NP_697043	10741	RBBP9	retinoblastoma binding protein 9
mioc0090 4C	NM_004117	NP_004108	2289; 401257	FKBP5	FK506 binding protein 5
mioc0121 4C	NM_022731	NP_073568	64710	NUCKS	nuclear ubiquitous casein kinase and cyclin-depend
mioc0222 4C	NM_017654	NP_060124	54809	FLJ20073	FLJ20073 protein
mioc0317 4C	NM_173582	NP_775853	283209	PGM2L1	phosphoglucomutase 2-like 1
mioc0375 4C	NM_020182	NP_954640	56937	TMEPAI	transmembrane, prostate androgen induced RNA
mioc0741 4C	NM_032747	NP_116136	84833	USMG5	upregulated during skeletal muscle growth 5
mioc0824 4C	NM_020221				
mioc0899 4C	NM_014786	NP_055601	9828	ARHGEF17	Rho guanine nucleotide exchange factor (GEF) 17
mioc0950 4C	NM_031935	NP_114141	83872	FIBL-6	hemiscentin
mioc1060 4C	NM_024666	NP_078942	79719	FLJ11506	hypothetical protein FLJ11506
mioc1122 4C	NM_007266	NP_009197	11321	XAB1	XPA binding protein 1
mioc1198 4C	NM_004331	NP_004322	665	BNIP3L	BCL2/adenovirus E1B 19kDa interacting protein 3-li

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mioc1205 4C	NM_005311				
mioc1440 4C	NM_005578	NP_005569	4026	LPP	LIM domain containing preferred translocation part
mioc1609 4C	NM_014707	NP_848512	9734	HDAC9	histone deacetylase 9
mioc1928 4C	NM_015631	NP_056446	26123	DKFZP564D116	DKFZP564D116 protein
mioc2019 4C	NM_015710	NP_056525	29997	GLTSCR2	glioma tumor suppressor candidate region gene 2
mioc2039 4C	NM_004375	NP_004366	1353	COX11	COX11 homolog, cytochrome c oxidase assembly prote
mioc2074 4C	NM_022899	NP_075050	93973	ACTR8	ARP8 actin-related protein 8 homolog (yeast)
mioc2166 4C	NM_006256	NP_006247	5586	PRKCL2	protein kinase C-like 2
mioc2173 4C	NM_002803	NP_002794	5701	PSMC2	proteasome (prosome, macropain) 26S subunit, ATPas
mioc2219 4C	NM_005455	NP_976225	9406	ZNF265	zinc finger protein 265
mioc2539 4C	NM_015508	NP_056323	25976	TIPARP	TCDD-inducible poly(ADP-ribose) polymerase
mioc2592 4C	NM_019597	NP_062543	3188	HNRPH2	heterogeneous nuclear ribonucleoprotein H2 (H')
mioc2694 4C	NM_004792	NP_004783	9360	PIPG	peptidyl-prolyl isomerase G (cyclophilin G)
mioc2726 4C	NM_022121	NP_071404	64065	PERP	PERP, TP53 apoptosis effector
mioc2806 4C	NM_004652	NP_068706	8239	USP9X	ubiquitin specific protease 9, X-linked (fat facet
mioc2880 4C	NM_033213	NP_149990	93474	MGC12466	hypothetical protein MGC12466
mioc2911 4C	NM_004162	NP_004153	5868	RAB5A	RAB5A, member RAS oncogene family
mioc2950 4C	NM_005831	NP_005822	10241	NDP52	nuclear domain 10 protein
mioc3127 4C	NM_033138	NP_149347	800	CALD1	caldesmon 1
mioc3206 4C	NM_024041	NP_076946	79005	SCNM1	sodium channel modifier 1
mioc3208 4C	NM_000668	NP_000659	125	ADH1B	alcohol dehydrogenase 1B (class I), beta polypepti
mioc3430 4C	NM_002635	NP_998777	5250	SLC25A3	solute carrier family 25 (mitochondrial carrier, p
mioc3574 4C	NM_004578	NP_004569	5867; 10638	RAB4A	RAB4A, member RAS oncogene family
mioc3618 4C	NM_002869	NP_942599	5870	RAB6A	RAB6A, member RAS oncogene family
mioc3716 4C	NM_021079	NP_066565	4836	NMT1	N-myristoyltransferase 1

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mioc3726	4C	NM_005699	NP_766632	10068	IL18BP	interleukin 18 binding protein
mioc3906	4C	NM_013255	NP_037387	4289	MKLN1	muskelin 1, intracellular mediator containing kelc
mioc3930	4C	NM_003131	NP_003122	6722	SRF	serum response factor (c-fos serum response elemen
mioc3958	4C	NM_004349	NP_783554	862	CBFA2T1	core-binding factor, runt domain, alpha subunit 2;
mioc4022	4C	NM_018286	NP_060756	55273	FLJ10970	hypothetical protein FLJ10970
mioc4089	4C	NM_139286	NP_644815	246184	CDC26	cell division cycle 26
mioc4247	4C	NM_001788	NP_001779	989	CDC10	CDC10 cell division cycle 10 homolog (S. cerevisia
mioc4290	4C	NM_006937	NP_008868	6613	SMT3H2	SMT3 suppressor of mif two 3 homolog 2 (yeast)
mioc4318	4C	NM_032565	NP_115954	84650	EBPL	emopamil binding protein-like
mioc4366	4C	NM_002693	NP_002684	5428	POLG	polymerase (DNA directed), gamma
mioc4420	4C	NM_005717	NP_005708	10092	ARPC5	actin related protein 2/3 complex, subunit 5, 16kD
mioc4534	4C	NM_001686	NP_001677	506	ATP5B	ATP synthase, H+ transporting, mitochondrial F1 co
mioc4641	4C	NM_000310	NP_000301	5538	PPT1	palmitoyl-protein thioesterase 1 (ceroid-lipofusci
mioc4667	4C	NM_018472	NP_060942	55855; 404636	HT011	uncharacterized hypothalamus protein HT011
mioc4696	4C	NM_003194	NP_003185	6908	TBP	TATA box binding protein
mioc4766	4C	NM_018457	NP_060927	54458	DKFZP564J1 57	DKFZp564J157 protein
mioc4925	4C	NM_020648	NP_065699	57045	TWSG1	twisted gastrulation homolog 1 (Drosophila)
mioc5307	4C	NM_203371	NP_976249	387758	LOC387758	similar to RIKEN cDNA 1110018M03
mioc5532	4C	NM_006470	NP_006461	10626	TRIM16	tripartite motif-containing 16
mioc5643	4C	NM_024665	NP_078941	79718	IRA1	likely ortholog of mouse IRA1 protein
mioc5664	4C	NM_006785	NP_776216	10892	MALTI	mucosa associated lymphoid tissue lymphoma translo
mioc5740	4C	NM_001101	NP_001092	60; 71	ACTB	actin, beta
mioc6075	4C	NM_024334	NP_077310	79188	MGC3222	hypothetical protein MGC3222
mioc6114	4C	NM_004830	NP_057063	9439	CRSP3	cofactor required for Sp1 transcriptional activati
mioc6260	4C	NM_199511	NP_955806	151887	URB	steroid sensitive gene 1

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mioc6312	4C	NM_017740	NP_060210	55625	ZDHC7	zinc finger, DHC domain containing 7
mioc6847	4C	NM_024633	NP_078909	79686	C14orf139	chromosome 14 open reading frame 139
mioc6987	4C	NM_006837	NP_006828	10987	COPS5	COP9 constitutive photomorphogenic homolog subunit
mioc6997	4C	NM_016306	NP_057390	51726	DNAJB11	DnaJ (Hsp40) homolog, subfamily B, member 11
mioc7170	4C	NM_002349	NP_002340	4065	LY75	lymphocyte antigen 75
mioc7260	4C	NM_014315	NP_055130	23588	KLHDC2	kelch domain containing 2
mioc7331	4C	NM_017933	NP_060403	55022	FLJ20701	hypothetical protein FLJ20701
mioc7360	4C	NM_018327	NP_060797	55304	C20orf38	chromosome 20 open reading frame 38
mioc7370	4C	NM_002838	NP_563580	5788	PTPRC	protein tyrosine phosphatase, receptor type, C
mioc7444	4C	NM_014992	NP_055807	23002	DAAM1	dishevelled associated activator of morphogenesis
mioc7509	4C	NM_032230	NP_115606	84190	FLJ22789	hypothetical protein FLJ22789
mioc7561	4C	NM_004878	NP_942092	9536	PTGES	prostaglandin E synthase
mioc7686	4C	NM_018480	NP_060950	55863	HT007	uncharacterized hypothalamus protein HT007
mioc7744	4C	NM_016447	NP_057531	51678	MPP6	membrane protein, palmitoylated 6 (MAGUK p55 subfa
mioc7764	4C	NM_024571	NP_078847	79622	C16orf33	chromosome 16 open reading frame 33
mioc7807	4C	NM_018291	NP_060761	55277	FLJ10986	hypothetical protein FLJ10986
mioc7818	4C	NM_031210	NP_112487	81892	DC50	hypothetical protein DC50
mioc7895	4C	NM_006432	NP_006423	10577	NPC2	Niemann-Pick disease, type C2
mioc7998	4C	NM_057175	NP_476516	80155	TBDN100	transcriptional coactivator tubedown-100
mioc8057	4C	NM_005065	NP_005056	6400	SEL1L	sel-1 suppressor of lin-12-like (C. elegans)
mioc8379	4C	NM_138394	NP_612403	92906	LOC92906	hypothetical protein BC008217
mioc8410	4C	NM_022129	NP_071412	64081	MAWBP	MAWD binding protein
mioc8423	4C	NM_001386	NP_001377	1808	DPYSL2	dihydropyrimidinase-like 2
mioc8434	4C	NM_207425	399821	FLJ37035	FLJ37035	
mioc8479	4C	NM_032870	NP_116259	25957	C6orf111	chromosome 6 open reading frame 111

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mioc8619	4C	NM_021960	NP_877495	4170	MCL1	myeloid cell leukemia sequence 1 (BC12-related)
mioc8682	4C	NM_021104	NP_066927	6171	RPL41	ribosomal protein L41
mioc8694	4C	NM_016316	NP_057400	51455	REV1L	REV1-like (yeast)
mioc0340	4C	NM_016127	NP_057211	51669	MGC8721	hypothetical protein MGC8721
mioc0441	4C	NM_176824	NP_789794	55212	BBS7	Bardet-Biedl syndrome 7
mioc0592	4C	NM_000255	NP_000246	4594	MUT	methylnalonyl Coenzyme A mutase
mioc0686	4C	XM_071675				
mioc1108	4C	NM_001949	NP_001940	1871	E2F3	E2F transcription factor 3
mioc1195	4C	NM_014480	NP_055295	27300; 401932	ZNF544	zinc finger protein 544
mioc1236	4C	NM_017824	NP_060294	54708	FLJ20445	hypothetical protein FLJ20445
mioc1331	4C	XM_084964				
mioc1389	4C	NM_004663	NP_004654	8766	RAB11A	RAB11A, member RAS oncogene family
mioc1448	4C	NM_015920	NP_057004	51065	RPS27L	ribosomal protein S27-like
mioc1542	4C	NM_018502	NP_060972	55374	PRO1580	hypothetical protein PRO1580
mioc1558	4C	NM_007173	NP_009104	11098	SPUVE	protease, serine, 23
mioc1811	4C	NM_018050	NP_060520	54682	MANSC1	MANSC domain containing 1
mioc1925	4C	NM_183422	NP_904358	8848	TGFB114	transforming growth factor beta 1 induced transcri
mioc1942	4C	NM_030921				
mioc2025	4C	NM_018017	NP_060487	55088	C10orf118	chromosome 10 open reading frame 118
mioc2128	4C	NM_002526	NP_002517	4907	NT5E	5'-nucleotidase, ecto (CD73)
mioc2323	4C	NM_030777	NP_110404	81031	SLC2A10	solute carrier family 2 (facilitated glucose trans
mioc2330	4C	NM_032427	NP_115803	84441	MAML2	mastermind-like 2 (Drosophila)
mioc2412	4C	NM_006335	NP_006326	10440	TIMM17A	translocase of inner mitochondrial membrane 17 hom
mioc2525	4C	NM_002734	NP_997637	5573	PRKAR1A	protein kinase, cAMP-dependent, regulatory, type I
mioc2635	4C	NM_019051	NP_061924	54534	MRPL50	mitochondrial ribosomal protein L50



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miod2639	4C	NM_006010	NP_006001	7873	ARMET	arginine-rich, mutated in early stage tumors
miod2665	4C	NM_033318	NP_201575	91689	LOC91689	hypothetical gene supported by AL449243
miod2837	4C	NM_017987	NP_060457	55680	RUFY2	RUN and FYVE domain containing 2
miod3468	4C	NM_020536	NP_808779	57325	CSRP2BP	CSRP2 binding protein
miod3591	4C	NM_004117	NP_004108	2289; 401257	FKBP5	FK506 binding protein 5
miod3854	4C	XM_032054				
miod4140	4C	NM_014781	NP_055596	9821	RB1CC1	RB1-inducible coiled-coil 1
miod4142	4C	NM_012469	NP_036601	24148	C20orf14	chromosome 20 open reading frame 14
miod4342	4C	NM_001316	NP_803185	1434	CSE1L	CSE1 chromosome segregation 1-like (yeast)
miod4348	4C	NM_018048	NP_060518	55110	FLJ10292	hypothetical protein FLJ10292
miod4407	4C	NM_002491	NP_002482	4709	NDUFB3	NADH dehydrogenase (ubiquinone) 1 beta subcomplex,
miod4449	4C	NM_080821	NP_543011	116151	C20orf108	chromosome 20 open reading frame 108
miod4539	4C	NM_198057	NP_932174	1831	DSIP1	delta sleep inducing peptide, immunoreactor
miod4759	4C	NM_172230	NP_757385	84447	HRD1	HRD1 protein
miod5030	4C	NM_007198	NP_009129	11212	PROSC	proline synthetase co-transcribed homolog (bacteri
miod5123	4C	NM_031431	NP_113619	83548	COG3	component of oligomeric golgi complex 3
miod5310	4C	NM_024579	NP_078855	79630	FLJ23221	hypothetical protein FLJ23221
miod5349	4C	NM_152350	NP_689563	125144	MGC40157	hypothetical protein MGC40157
miod5369	4C	NM_020143	NP_064528	56902	LOC56902	putative 28 kDa protein
miod5505	4C	NM_015310	NP_996792	23362	EFA6R	ADP-ribosylation factor guanine nucleotide factor
miod5651	4C	NM_018129	NP_060599	55163	PNPO	pyridoxine-5'-phosphate oxidase
miod5698	4C	NM_017935	NP_060405	55024	BANK1	B-cell scaffold protein with ankyrin repeats 1
miod5703	4C	NM_004152	NP_004143	4946	OAZ1	ornithine decarboxylase antizyme 1
miod5707	4C	NM_003142	NP_003133	6741	SSB	Sjogren syndrome antigen B (autoantigen Ia)
miod6029	4C	NM_052880	NP_443112	113791	MGC17330	HGFL gene

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miod6041	4C	NM_007235	NP_009166	11260	XPOT	exportin, tRNA (nuclear export receptor for tRNAs)
miod6044	4C	NM_000305	NP_000296	5445	PON2	paraoxonase 2
miod6068	4C	NM_005875	NP_005866	10289	GC20	translation factor suil homolog
miod6162	4C	NM_145911	NP_666016	7571; 390738	ZNF23	zinc finger protein 23 (KOX 16)
miod6238	4C	NM_018981	NP_061854	54431	DNAIC10	DnaI (Hsp40) homolog, subfamily C, member 10
miod6437	4C	NM_020974	NP_066025	57758	SCUBE2	signal peptide, CUB domain, EGF-like 2
miod6467	4C	NM_004652	NP_068706	8239	USP9X	ubiquitin specific protease 9, X-linked (fat facet
miod6560	4C	NM_152261	NP_689474	90488	MGC17943	hypothetical protein MGC17943
miod6731	4C	XM_087279				
miod6845	4C	NM_032593	NP_115982	84681	HINT2	histidine triad nucleotide binding protein 2
miod6947	4C	NM_144721	NP_653322	152815	THAP6	THAP domain containing 6
miod7243	4C	NM_006403	NP_892011	4739	NEDD9	neural precursor cell expressed, developmentally d
miod7337	4C	NM_198859	NP_942559	166336	PRICKLE2	prickle-like 2 (Drosophila)
miod7351	4C	NM_003945	NP_003936	8992	ATP6V0E	ATPase, H+ transporting, lysosomal 9kDa, V0 subuni
miod7414	4C	NM_032338	NP_115714	84298	MGC14817	hypothetical protein MGC14817
miod7440	4C	NM_022901	NP_075052	64922	LRRC19	leucine rich repeat containing 19
miod7457	4C	NM_006873	NP_006864	11037	SBLF	stoned B-like factor
ncr0019	4C	NM_003908	NP_003899	8894	EIF2S2	eukaryotic translation initiation factor 2, subuni
ncr0025	4C	NM_002160	NP_002151	3371	TNC	tenascin C (hexabrachion)
ncr0045	4C	NM_030759	NP_110386	29982	NRBF2	nuclear receptor binding factor 2
ncr0075	4C	NM_002024	NP_002015	2332	FMR1	fragile X mental retardation 1
ncr0132	4C	NM_033625	NP_296374	6164	RPL34	ribosomal protein L34
ncr0153	4C	NM_006379	NP_006370	10512	SEMA3C	sema domain, immunoglobulin domain (Ig), short bas
ncr0194	4C	NM_000416	NP_000407	3459	IFNGRI	interferon gamma receptor 1
ncr0212	4C	NM_000599	NP_000590	3488	IGFBP5	insulin-like growth factor binding protein 5

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ncr0223	4C	NM_002865	NP_002856	5862	RAB2	RAB2, member RAS oncogene family
ncr0238	4C	NM_007021	NP_008952	11067	C10orf10	chromosome 10 open reading frame 10
ncr0240	4C	NM_007118	NP_009049	7204	TRIO	triple functional domain (PTPRF interacting)
ncr0258	4C	NM_021141	NP_066964	7520	XRCC5	X-ray repair complementing defective repair in Chi
ncr0335	4C	NM_016141	NP_057225	51143	DNCL1	dynein, cytoplasmic, light intermediate polypeptid
ncr0438	4C	NM_014933	NP_057295	22872	SEC31L1	SEC31-like 1 (S. cerevisiae)
ncr0478	4C	NM_003234	NP_003225	7037	TFRC	transferrin receptor (p90, CD71)
ncr0531	4C	NM_013332	NP_037464	29923	HIG2	hypoxia-inducible protein 2
ncr0547	4C	NM_005324	NP_005315	3021	H3F3B	H3 histone, family 3B (H3.3B)
ncr0612	4C	NM_006857	NP_006848	11017	RY1	putative nucleic acid binding protein RY-1
ncr0615	4C	NM_006888	NP_008819	801	CALM1	calmodulin 1 (phosphorylase kinase, delta)
ncr0634	4C	NM_006029	NP_006020	9240	PNMA1	paraneoplastic antigen MA1
ncr0733	4C	NM_004048	NP_004039	567	B2M	beta-2-microglobulin
ncr0766	4C	NM_006286	NP_006277	7029	TFDP2	transcription factor Dp-2 (E2F dimerization partne
ncr0808	4C	NM_000252	NP_000243	4534	MTM1	myotubular myopathy 1
ncr0847	4C	NM_001001	NP_000992	6166	RPL36AL	ribosomal protein L36a-like
ncr0898	4C	NM_152446				
ncr0912	4C	NM_014288	NP_055103	23421	ITGB3BP	integrin beta 3 binding protein (beta3-endonexin)
ncr0976	4C	NM_020948	NP_065999	57708	ML-ER1	mesoderm induction early response 1
ncr1235	4C	NM_003859	NP_003850	8813	DPM1	dolichyl-phosphate mannosyltransferase polypeptide
ncr1351	4C	NM_005004	NP_004995	4714	NDUFB8	NADH dehydrogenase (ubiquinone) 1 beta subcomplex,
ncr1352	4C	NM_014247				
ncr1387	4C	NM_001884	NP_001875	1404	HAPLN1	hyaluronan and proteoglycan link protein 1
ncr1437	4C	NM_020748	NP_065799	57508	KIAA1287	KIAA1287 protein
ncr1526	4C	NM_006811	NP_945179	10955	TDE1	tumor differentially expressed 1

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ncr1550	4C	NM_014672				
ncr1563	4C	NM_016604	NP_057688	51780	JMID1B	jumonji domain containing 1B
ncr1631	4C	NM_016371	NP_057455	51478	HSD17B7	hydroxysteroid (17-beta) dehydrogenase 7
ncr1802	4C	NM_005897	NP_005888	3652	IPP	intracisternal A particle-promoted polypeptide
ncr1876	4C	NM_006738	NP_658913	11214	AKAP13	A kinase (PRKA) anchor protein 13
ncr1912	4C	NM_053025	NP_444260	4638	MYLK	myosin, light polypeptide kinase
ncr2013	4C	NM_020898	NP_065949	57658	KIAA1536	KIAA1536 protein
ncr2182	4C	NM_033540	NP_284941	55669	MFN1	mitofusin 1
ncr2269	4C	NM_020182	NP_954640	56937	TMEPA1	transmembrane, prostate androgen induced RNA
ncr2293	4C	NM_007364	NP_031390	23423	P24B	integral type I protein
ncr2304	4C	NM_032682	NP_116071	27086	FOXP1	forkhead box P1
ncr2408	4C	NM_178191	NP_835498	93974	ATPIF1	ATPase inhibitory factor 1
ncr2472	4C	NM_004180	NP_597841	10010	TANK	TRAF family member-associated NFKB activator
ncr2484	4C	NM_015017	NP_963920	23032	USP33	ubiquitin specific protease 33
ncr2486	4C	NM_006474	NP_938203	10630	T1A-2	lung type-I cell membrane-associated glycoprotein
ncr2666	4C	NM_004986				
ncr2717	4C	NM_139078	NP_620777	8550	MAPKAPK5	mitogen-activated protein kinase-activated protein
ncr2792	4C	NM_012245	NP_036377	22938	SNW1	SKI-interacting protein
ncr2861	4C	NM_173647	NP_775918	284996	RNF149	ring finger protein 149
ncr2905	4C	NM_032870	NP_116259	25957	G6orf111	chromosome 6 open reading frame 111
ncr2966	4C	NM_021151	NP_066974	54677	CROT	carnitine O-octanoyltransferase
ncr3035	4C	NM_003182	NP_054704	6863	TAC1	tachykinin, precursor 1 (substance K, substance P,
ncr3037	4C	NM_000975	NP_000966	6135	RPL11	ribosomal protein L11
ncr3118	4C	NM_022977	NP_075266	2182	ACSL4	acyl-CoA synthetase long-chain family member 4
ncr3163	4C	NM_145645	NP_684281	260294; 155400;	WBSR20C	Williams Beuren syndrome chromosome region 20C

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			3403		
ncr3172	4C	NM_001380	NP_001371	DOCK1	dedicator of cytokinesis 1
ncr3197	4C	NM_145080	NP_659547	NSE1	non-SMC (structural maintenance of chromosomes) el
ncr3237	4C	NM_015001	NP_055816	SHARP	SMART/HDAC1 associated repressor protein
ncr3268	4C	NM_020371	NP_065104	AVEN	apoptosis, caspase activation inhibitor
ncr3339	4C	NM_000996	NP_000987	RPL35A	ribosomal protein L35a
ncr3368	4C	NM_015070	NP_055885	KIAA0853	KIAA0853
ncr3396	4C	NM_006808	NP_006799	SEC61B	Sec61 beta subunit
ncr3402	4C	NM_015959	NP_057043	TMX2	thioredoxin-related transmembrane protein 2
ncr3434	4C	NM_005699	NP_766632	IL18BP	interleukin 18 binding protein
ncr3465	4C	NM_017728	NP_060198	FLJ20255	hypothetical protein FLJ20255
ncr3496	4C	NM_194430	NP_919412	RNASE4	ribonuclease, RNase A family, 4
ncr3614	4C	NM_000993	NP_000984	RPL31	ribosomal protein L31
ncr3684	4C	NM_005644	NP_005635	TAF12	TAF12 RNA polymerase II, TATA box binding protein
ncr3713	4C	NM_006024	NP_006015	TAX1BP1	Tax1 (human T-cell leukemia virus type I) binding
ncr3751	4C	NM_014206	NP_055021	C11orf10	chromosome 11 open reading frame 10
ncr3778	4C	NM_003184	NP_003175	TAF2	TAF2 RNA polymerase II, TATA box binding protein (
ncr3782	4C	NM_003463	NP_003454	PTP4A1	protein tyrosine phosphatase type IV/A, member 1
ncr3811	4C	NM_032411	NP_115787	ECRG4	esophageal cancer related gene 4 protein
ncr3837	4C	NM_021219	NP_067042	JAM2	junctional adhesion molecule 2
ncr3843	4C	NM_182643	NP_872584	DLG1	deleted in liver cancer 1
ncr3948	4C	NM_003851	NP_003842	CREG	cellular repressor of E1A-stimulated genes
ncr4118	4C	NM_016494	NP_057578	LOC51255	hypothetical protein LOC51255
ncr4126	4C	NM_001780	NP_001771	CD63	CD63 antigen (melanoma 1 antigen)
ncr4140	4C	NM_024408	NP_077719	NOTCH2	Notch homolog 2 (Drosophila)

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ncr4202	4C	NM_145036	NP_659473	201134	MGCC33887	hypothetical protein MGCC33887
ncr4416	4C	NM_001904	NP_001895	1499	CTNNB1	catenin (cadherin-associated protein), beta 1, 88k
ncr4452	4C	NM_001998	NP_001989	2199	FBLN2	fibulin 2
ncr4539	4C	NM_014285	NP_055100	23404	EXOSC2	exosome component 2
ncr4545	4C	NM_152608	NP_689821	163859	FLJ35382	hypothetical protein FLJ35382
ncr4550	4C	XM_301731				
ncr4551	4C	NM_032311	NP_835237	84271	POLDIP3	polymerase (DNA-directed), delta interacting prote
ncr4656	4C	NM_007146	NP_009077	7716	ZNF161	zinc finger protein 161
ncr5066	4C	NM_002117	NP_002108	3107	HLA-C	major histocompatibility complex, class I, C
ncr5168	4C	NM_015902	NP_056986	51366	DD5	progestin induced protein
ncr5488	4C	NM_005153	NP_005144	9100	USP10	ubiquitin specific protease 10
ncr5568	4C	NM_005914	NP_877423	4173	MCM4	MCM4 minichromosome maintenance deficient 4 (S. ce
ncr5713	4C	NM_002070	NP_002061	2771	GNAI2	guanine nucleotide binding protein (G protein), al
ncr5939	4C	NM_170606	NP_733751	58508	MLL3	myeloid/lymphoid or mixed-lineage leukemia 3
ncr6072	4C	NM_133259	NP_573566	10128	LRPPRC	leucine-rich PPR-motif containing
ncr6141	4C	NM_007043	NP_008974	11103	HRB2	HIV-1 rev binding protein 2
ncr6142	4C	NM_004068	NP_004059	1173	AP2M1	adaptor-related protein complex 2, mu 1 subunit
ncr6232	4C	NM_014608	NP_055423	23191	CYFIP1	cytoplasmic FMR1 interacting protein 1
ncr6335	4C	NM_005859	NP_005850	5813	PURA	purine-rich element binding protein A
ncr7082	4C	NM_002117	NP_002108	3107	HLA-C	major histocompatibility complex, class I, C
ncr7267	4C	NM_015484	NP_997053	25949	P29	GCIP-interacting protein p29
ncr7345	4C	NM_006629	NP_006620	10778	ZNF271	zinc finger protein 271
ncr7595	4C	NM_032621	NP_116010	84707	BEX2	brain expressed X-linked 2
ncr7668	4C	NM_006827	NP_006818	10972	TMP21	transmembrane trafficking protein
ncr7672	4C	NM_006988	NP_008919	9510	ADAMTS1	a disintegrin-like and metalloprotease (reprolysin

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ncr7768	4C	NM_033055	NP_149044	64645	HLAT1	hippocampus abundant transcript 1
ncr7813	4C	NM_004477	NP_004468	2483	FRG1	FSHD region gene 1
ncr7852	4C	NM_000249	NP_000240	4292	MLH1	mutl homolog 1, colon cancer, nonpolyposis type 2
ncr7904	4C	NM_012479	NP_036611	7532	YWHAG	tyrosine 3-monooxygenase/tryptophan 5-monooxygenas
ncr7973	4C	NM_021227	NP_067050	58505	DC2	DC2 protein
ncr8041	4C	NM_012097	NP_817114	26225	ARL5	ADP-ribosylation factor-like 5
ncr8067	4C	NM_015878	NP_680479	51582	OAZIN	ornithine decarboxylase antizyme inhibitor
ncr8290	4C	NM_000740	NP_000731	1131	CHRM3	cholinergic receptor, muscarinic 3
ncr8542	4C	NM_001207	NP_001198	689; 220793	BTF3	basic transcription factor 3
ncr8588	4C	NM_005104	NP_005095	6046	BRD2	bromodomain containing 2
ncr8693	4C	NM_003542	NP_003531	8361; 8364	HIST1H4F	histone 1, H4f
ncr8811	4C	NM_016144	NP_057228	51397	COMM10	COMM domain containing 10
ncr8843	4C	NM_003640	NP_003631	8518; 10880	IKBKAP	inhibitor of kappa light polypeptide gene enhancer in B-cells, kinase complex-associated protein
ncr8866	4C	NM_004155	NP_004146	5272	SERPINB9	serine (or cysteine) proteinase inhibitor, clade B
ncr8893	4C	NM_032320	NP_115696	84280	GMRP-1	K+ channel tetramerization protein
ncr8975	4C	NM_003347	NP_937800	7332	UBE2L3	ubiquitin-conjugating enzyme E2L 3
ncr8995	4C	NM_153366				
ncr9108	4C	NM_014188	NP_054907	29101	HSPC182	HSPC182 protein
ncr9165	4C	NM_000636	NP_000627	6648	SOD2	superoxide dismutase 2, mitochondrial
ncr9337	4C	NM_003407	NP_003398	7538	ZFP36	zinc finger protein 36, C3H type, homolog (mouse)
ncr9429	4C	NM_014437	NP_055252	27173	SLC39A1	solute carrier family 39 (zinc transporter), membe
ncr9549	4C	NM_006876	NP_006867	11041	B3GNT6	UDP-GlcNAc:betaGal beta-1,3-N-acetylglucosaminyltr
ncr9596	4C	NM_022777	NP_073614	64792	RABL5	RAB, member RAS oncogene family-like 5
ncr9919	4C	NM_006910	NP_116015	5930	RBBP6	retinoblastoma binding protein 6
ncrb0033	4C	NM_001212	NP_001203	708	C1QBP	complement component 1, q subcomponent binding pro



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ncrb0054	4C	NM_007100	NP_009031	521	ATP51	ATP synthase, H <sup>+</sup> transporting, mitochondrial F0 co
ncrb0145	4C	NM_014169	NP_054888	29082	C14orf123	chromosome 14 open reading frame 123
ncrb0262	4C	NM_000671	NP_000662	128	ADH5	alcohol dehydrogenase 5 (class III), chi polypepti
ncrb0328	4C	NM_018950	NP_061823	3134	HLA-F	major histocompatibility complex, class I, F
ncrb0513	4C	NM_000903	NP_000894	1728	NQO1	NAD(P)H dehydrogenase, quinone 1
ncrb0696	4C	NM_014706	NP_055521	9733	SART3	squamous cell carcinoma antigen recognised by T ce
ncrb0782	4C	NM_001710	NP_001701	629	BF	B-factor, properdin
ncrb1373	4C	NM_001172	NP_001163	384	ARG2	arginase, type II
ncrb1438	4C	NM_033414	NP_219482	90441	ZNF622	zinc finger protein 622
ncrb1456	4C	NM_031407				
ncrb1802	4C	NM_003760	NP_003751	8672	EIF4G3	eukaryotic translation initiation factor 4 gamma,
ncrb1956	4C	NM_019003	NP_061876	54466	SPIN2	spindlin family, member 2
ncrb2092	4C	NM_019111	NP_061984	3122	HLA-DRA	major histocompatibility complex, class II, DR alp
ncrb2266	4C	NM_022818	NP_073729	81631	MAP1LC3B	microtubule-associated protein 1 light chain 3 bet
ncrb2288	4C	NM_004643	NP_004634	8106	PABPN1	poly(A) binding protein, nuclear 1
ncrb2544	4C	NM_018996	NP_061869	57690	KIAA1582	KIAA1582 protein
ncrb3001	4C	NM_025191	NP_079467	80267	C1orf22	chromosome 1 open reading frame 22
ncrb3003	4C	NM_032217	NP_942592	26057	ANKRD17	ankyrin repeat domain 17
ncrb3284	4C	NM_021079	NP_066565	4836	NMT1	N-myristoyltransferase 1
ncrb3301	4C	NM_020151	NP_644672	56910	STARD7	START domain containing 7
ncrb3329	4C	NM_005655	NP_005646	7071	TIEG	TGFB inducible early growth response
ncrb3585	4C	NM_001613	NP_001604	59	ACTA2	actin, alpha 2, smooth muscle, aorta
ncrb3702	4C	NM_031229	NP_112506	10616	C20orf18	chromosome 20 open reading frame 18
ncrb3936	4C	NM_018046	NP_060516	55109	VG5Q	angiogenic factor VG5Q
ncrb3942	4C	NM_014892				

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ncrb4039	4C	NM_181304	NP_851824	122704	MRPL52	mitochondrial ribosomal protein L52
ncrb4182	4C	NM_018590	NP_061060	55454	GALNACT-2	chondroitin sulfate GalNAct-2
ncrb4319	4C	NM_153365	NP_699196	202018	FLJ90013	hypothetical protein FLJ90013
ncrb4339	4C	XM_211709				
ncrb4390	4C	NM_000972	NP_000963	6130; 147346	RPL7A	ribosomal protein L7a
ncrb4441	4C	NM_004547	NP_004538	4710	NDUFB4	NADH dehydrogenase (ubiquinone) 1 beta subcomplex,
ncrb4538	4C	NM_001226	NP_116787	839	CASP6	caspase 6, apoptosis-related cysteine protease
ncrb4912	4C	NM_003618	NP_003609	8491	MAP4K3	mitogen-activated protein kinase kinase kinase kin
ncrb4957	4C	NM_003881	NP_003872	8839	WISP2	WNT1 inducible signaling pathway protein 2
ncrb5197	4C	NM_021149	NP_066972	23406	COTL1	coactosin-like 1 (Dictyostelium)
ncrb5595	4C	NM_002318	NP_002309	4017	LOXL2	lysyl oxidase-like 2
ncrb6037	4C	NM_001540	NP_001531	3315	HSPB1	heat shock 27kDa protein 1
ncrb6087	4C	NM_015962	NP_057046	51077	C14orf111	chromosome 14 open reading frame 111
ncrb6192	4C	NM_032754				
ncrb6327	4C	NM_001697	NP_001688	539	ATP5O	ATP synthase, H+ transporting, mitochondrial F1 co
ncrb6432	4C	NM_032632	NP_116021	10914	PAPOLA	poly(A) polymerase alpha
ncrb6453	4C	NM_020133	NP_064518	56895; 79992	AGPAT4	1-acylglycerol-3-phosphate O-acyltransferase 4 (ly
ncrb6530	4C	NM_001331	NP_001322	1500	CTNND1	catenin (cadherin-associated protein), delta 1
ncrb6661	4C	NM_032943	NP_996813	54843	SYTL2	synaptotagmin-like 2
ncrb6818	4C	NM_022830	NP_073741	64852	RBM21	RNA binding motif protein 21
ncrb6833	4C	NM_006624	NP_997644	10771	ZMYND11	zinc finger, MYND domain containing 11
ncrb7102	4C	NM_005611	NP_005602	5934	RBL2	retinoblastoma-like 2 (p130)
ncrb7292	4C	NM_017976				
ncrb7726	4C	NM_020904	NP_065955	57664	PLEKHA4	pleckstrin homology domain containing, family A (p
ncrb8063	4C	NM_015966	NP_938408	51614	SDBCAG84	serologically defined breast cancer antigen 84

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ncrb8134	4C	NM_173473	NP_775744	119504	C10orf104	chromosome 10 open reading frame 104
ncrb8203	4C	NM_021826				
ncrb8207	4C	NM_003713	NP_803133	8613	PPAP2B	phosphatidic acid phosphatase type 2B
ncrb8239	4C	NM_023928	NP_076417	65985	AACS	acetoacetyl-CoA synthetase
ncrb8253	4C	NM_005600	NP_005591	4817	NIT1	nitrilase 1
ncrb8273	4C	NM_014570	NP_055385	26286	ARFGAP3	ADP-ribosylation factor GTPase activating protein
ncrb8343	4C	NM_022748	NP_073585	64759	TENSI	tensin-like SH2 domain containing 1
ncrb8385	4C	NM_000493	NP_000484	1300	COL10A1	collagen, type X, alpha 1(Schmid metaphyseal chond
ncrb8392	4C	NM_014624	NP_055439	6277; 400825	SI00A6	SI00 calcium binding protein A6 (calycylin)
ncrb8437	4C	NM_001402	NP_001393	1915; 389411	EEF1A1	eukaryotic translation elongation factor 1 alpha 1
ncrb8451	4C	XM_050219	171024	SYNPO2	synaptopodin 2	
ncrb8649	4C	NM_016060	NP_057144	51003	CGI-125	CGI-125 protein
ncrb8665	4C	NM_198057	NP_932174	1831	DSIP1	delta sleep inducing peptide, immunoreactor
ncrb8693	4C	NM_004798	NP_004789	9371	KIF3B	kinesin family member 3B
ncrb8751	4C	NM_052905	NP_443137	114793	FMNL2	formin-like 2
ncrb8790	4C	NM_024839	NP_079115	79897	RPP21	ribonuclease P 21kDa subunit
ncrb8820	4C	NM_018243	NP_060713	55752	FLJ10849	hypothetical protein FLJ10849
ncrb8821	4C	NM_002635	NP_998777	5250	SLC25A3	solute carrier family 25 (mitochondrial carrier; p
ncrc0090	4C	NM_014613	NP_055428	23197	ETEA	expressed in T-cells and eosinophils in atopic der
ncrc0100	4C	NM_031461	NP_113649	83690	LOC83690	CocoaCrisp
ncrc0101	4C	XM_084482		84159	ARID5B	AT rich interactive domain 5B (MRF1-like)
ncrc0150	4C	NM_004048	NP_004039	567	B2M	beta-2-microglobulin
ncrc0174	4C	NM_004837	NP_004828	9453	GGPS1	geranylgeranyl diphosphate synthase 1
ncrc0259	4C	NM_001402	NP_001393	1915; 389411	EEF1A1	eukaryotic translation elongation factor 1 alpha 1

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ncrc0292	4C	NM_005687	NP_005678	10056	FARSLB	phenylalanine-tRNA synthetase-like, beta subunit
ncrc0304	4C	NM_017869	NP_524576	54971	BANP	BTG3 associated nuclear protein
ncrc0342	4C	NM_145351	NP_663327	8578; 83547	SCARF1	scavenger receptor class F, member 1
ncrc0383	4C	NM_002796	NP_002787	5692	PSMB4	proteasome (prosome, macropain) subunit, beta type
ncrc0413	4C	NM_012328	NP_036460	4189	DNAJB9	DnaJ (Hsp40) homolog, subfamily B, member 9
ncrc0583	4C	NM_003932	NP_003923	6767	STI3	suppression of tumorigenicity 13 (colon carcinoma)
ncrc0640	4C	NM_012260	NP_036392	26061	HPCL2	2-hydroxyphytanoyl-CoA lyase
ncrc0667	4C	NM_018405	NP_060875	55352	HSA272196	hypothetical protein, clone 2746033
ncrc0704	4C	NM_000393	NP_000384	1290	COL5A2	collagen, type V, alpha 2
ncrc0715	4C	NM_005922	NP_006715	4216	MAP3K4	mitogen-activated protein kinase kinase kinase 4
ncrc0729	4C	NM_031922	NP_114128	85021	REPS1	RALBP1 associated Eps domain containing 1
ncrc0793	4C	NM_004791	NP_004782	9358	ITGBL1	integrin, beta-like 1 (with EGF-like repeat domain
ncrc0803	4C	NM_148976	NP_683877	5682	PSMA1	proteasome (prosome, macropain) subunit, alpha typ
ncrc0846	4C	NM_014248	NP_055063	9978	RBX1	ring-box 1
ncrc0856	4C	NM_006048	NP_006039	10277	UBE4B	ubiquitination factor E4B (UFD2 homolog, yeast)
ncrc0863	4C	NM_006472	NP_006463	10628	TXNIP	thioredoxin interacting protein
ncrc0883	4C	NM_002356	NP_002347	4082	MARCKS	myristoylated alanine-rich protein kinase C substr
ncrc1049	4C	NM_004040	NP_004031	388	RHOB	ras homolog gene family, member B
ncrc1140	4C	NM_031284	NP_112574	83440	ADP-GK	ATP-dependent glucokinase
ncrc1176	4C	NM_016131	NP_057215	10890	RAB10	RAB10, member RAS oncogene family
ncrc1231	4C	NM_014713	NP_055528	9741	LAPTM4A	lysosomal-associated protein transmembrane 4 alpha
ncrc1402	4C	NM_022902	NP_076960	64924	SLC30A5	solute carrier family 30 (zinc transporter), membe
ncrc1502	4C	NM_054027	NP_473368	56172	ANKH	ankylosis, progressive homolog (mouse)
ncrc1595	4C	NM_006265	NP_006256	5885	RAD21	RAD21 homolog (S. pombe)
ncrc1751	4C	NM_001685	NP_001676	522	ATP5J	ATP synthase, H+ transporting, mitochondrial F0 co

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ncrc1765	4C	NM_015508	NP_056323	25976	TIPARP	TCDD-inducible poly(ADP-ribose) polymerase
ncrc1873	4C	NM_001613	NP_001604	59	ACTA2	actin, alpha 2, smooth muscle, aorta
ncrc1885	4C	NM_001948	NP_001939	1854	DUT	dUTP pyrophosphatase
ncrc1952	4C	NM_139279	NP_644808	90411	MCFD2	multiple coagulation factor deficiency 2
ncrc1999	4C	NM_021034	NP_066362	10410	IFITM3	interferon induced transmembrane protein 3 (1-8U)
ncrc2018	4C	NM_001174	NP_038286	395	ARHGAP6	Rho GTPase activating protein 6
ncrc2119	4C	NM_001920	NP_598014	1634	DCN	decorin
ncrc2273	4C	NM_013234	NP_037366	27335	eIF3k	eukaryotic translation initiation factor 3 subunit
ncrc2413	4C	NM_018164	NP_060634	55726	FLJ10637	hypothetical protein FLJ10637
ncrc2472	4C	NM_015216	NP_056031	23262	KIAA0433	KIAA0433 protein
ncrc2613	4C	NM_022749	NP_073586	64760; 55307	RAI16	retinoic acid induced 16
ncrc2685	4C	NM_002790	NP_002781	5686	PSMA5	proteasome (prosome, macropain) subunit, alpha typ
ncrc2776	4C	NM_006469	NP_006460	10625	IVNS1ABP	influenza virus NS1A binding protein
ncrc2859	4C	NM_017934	NP_060404	55023	PHIP	pleckstrin homology domain interacting protein
ncrc2888	4C	NM_024104	NP_077009	79086	MGC2747	hypothetical protein MGC2747
ncrc2928	4C	NM_003063	NP_003054	6588	SLN	sarcolipin
ncrc2940	4C	NM_176824	NP_789794	55212	BBS7	Bardet-Biedl syndrome 7
ncrc3045	4C	NM_017946	NP_060416	55033	FKBP14	FK506 binding protein 14, 22 kDa
ncrc3072	4C	NM_014933	NP_057295	22872	SEC31LI	SEC31-like 1 (S. cerevisiae)
ncrc3141	4C	NM_021999	NP_068839	9445	ITM2B	integral membrane protein 2B
ncrc3258	4C	NM_020235	NP_064620	56987	BBX	bobby sox homolog (Drosophila)
ncrc3276	4C	NM_144772	NP_658985	128240	APOA1BP	apolipoprotein A-I binding protein
ncrc3358	4C	NM_006930	NP_733779	6500	SKP1A	S-phase kinase-associated protein 1A (p19A)
ncrc3416	4C	NM_020414	NP_065147	57062	DDX24	DEAD (Asp-Glu-Ala-Asp) box polypeptide 24
ncrc3434	4C	NM_002182	NP_608273	3556	IL1RAP	interleukin 1 receptor accessory protein

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ncrc3453	4C	NM_014905	NP_055720	2744	GLS	glutaminase
ncrc3464	4C	NM_014320	NP_055135	23593	HEBP2	heme binding protein 2
ncrc3468	4C	NM_001685	NP_001676	522	ATP5J	ATP synthase, H <sup>+</sup> transporting, mitochondrial F0 co
ncrc3529	4C	NM_002629	NP_002620	5223	PGAM1	phosphoglycerate mutase 1 (brain)
ncrc3536	4C	NM_017752	NP_942582	5485	FLJ20298	FLJ20298 protein
ncrc3544	4C	NM_000970	NP_000961	6128	RPL6	ribosomal protein L6
ncrc3624	4C	NM_014154	NP_998819	25852	HSPC056	HSPC056 protein
ncrc3840	4C	NM_015523	NP_056538	25996	DKFZP566E144	small fragment nuclease
ncrc3953	4C	NM_003754	NP_003745	8665	EIF3S5	eukaryotic translation initiation factor 3, subuni
ncrc4000	4C	NM_022731	NP_073568	64710	NUCKS	nuclear ubiquitous casein kinase and cyclin-depend
ncrc4047	4C	NM_007106	NP_009037	5412	UBL3	ubiquitin-like 3
ncrc4079	4C	NM_003713	NP_803133	8613	PPAP2B	phosphatidic acid phosphatase type 2B
ncrc4089	4C	NM_006535	NP_006526	10440	TIMM17A	translocase of inner mitochondrial membrane 17 hom
ncrc4226	4C	NM_006207	NP_006198	5157	PDGFRL	platelet-derived growth factor receptor-like
ncrc4247	4C	NM_019043	NP_061916	54518	APBB1IP	amyloid beta (A4) precursor protein-binding, famil
ncrc4296	4C	NM_006828	NP_006819	10973; 63921	HELIC1	helicase, ATP binding 1
ncrc4313	4C	NM_016516	NP_057600	51542	VPS54	vacuolar protein sorting 54 (yeast)
ncrc4531	4C	NM_001870	NP_001861	1359	CPA3	carboxypeptidase A3 (mast cell)
ncrc4597	4C	NM_014685	NP_055500	9709	HERPUDI	homocysteine-inducible, endoplasmic reticulum stre
ncrc4600	4C	NM_014739				
ncrc4633	4C	NM_002835	NP_002826	5782	PTPN12	protein tyrosine phosphatase, non-receptor type 12
ncrc4654	4C	NM_015113	NP_055928	23140	ZZEF1	zinc finger, ZZ-type with EF hand domain 1
ncrc4757	4C	NM_024496	NP_078772	64207	C14orf4	chromosome 14 open reading frame 4
ncrc4794	4C	NM_007085	NP_009016	11167	FSTL1	folliculin-like 1
ncrc4808	4C	NM_015638	NP_955400	26133	TRPC4AP	transient receptor potential cation channel, subfa

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ncrc4875	4C	NM_015308	NP_056123	23360	FNBP4	formin binding protein 4
ncrc4885	4C	NM_006886	NP_008817	514	ATP5E	ATP synthase, H+ transporting, mitochondrial F1 co
ncrc4903	4C	NM_015640	NP_056455	26135	PAL-RBP1	PAL-1 mRNA-binding protein
ncrc4985	4C	NM_000129	NP_000120	2162	F13A1	coagulation factor XIII, A1 polypeptide
ncrc4991	4C	NM_004071	NP_004062	1195	CLK1	CDC-like kinase 1
ncrc5019	4C	NM_147160	NP_671516	10280	OPRS1	opioid receptor, sigma 1
ncrc5039	4C	NM_006691	NP_006682	10894	XLKD1	extracellular link domain containing 1
ncrc5054	4C	NM_024592	NP_078868	79644	FLJ13352	hypothetical protein FLJ13352
ncrc5061	4C	NM_015046	NP_055861	23064	KIAA0625	senataxin
ncrc5072	4C	NM_014820	NP_055635	9868	TOMM70A	translocase of outer mitochondrial membrane 70 hom
ncrc5079	4C	NM_013234	NP_037366	27335	elf3k	eukaryotic translation initiation factor 3 subunit
ncrc5088	4C	NM_001568	NP_001559	3646	EIF3S6	eukaryotic translation initiation factor 3, subunit
ncrc5091	4C	NM_002381	NP_002372	4148	MATN3	matrin 3
ncrc5150	4C	NM_016447	NP_057531	51678	MPP6	membrane protein, palmitoylated 6 (MAGUK p55 subfa
ncrc5162	4C	NM_003270	NP_003261	7105	TMASF6	transmembrane 4 superfamily member 6
ncrc5207	4C	NM_032679	NP_116068	84765	ZNF577	zinc finger protein 577
ncrc5243	4C	NM_014363	NP_055178	26278	SACS	spastic ataxia of Charlevoix-Saguenay (sacsin)
ncrc5296	4C	NM_006618	NP_006609	10765	JARID1B	Jumonji, AT rich interactive domain 1B (RBP2-like)
ncrc5363	4C	NM_012201	NP_036333	2734	GLG1	golgi apparatus protein 1
ncrc5369	4C	NM_004965	NP_004956	3150	HMGNI	high-mobility group nucleosome binding domain 1
ncrc5417	4C	NM_005625	NP_005616	6386	SDCBP	syndecan binding protein (syntenin)
ncrc5434	4C	NM_033027	NP_149016	64651	AXUD1	AXIN1 up-regulated 1
ncrc5553	4C	NM_004251	NP_004242	9367	RAB9A	RAB9A, member RAS oncogene family
ncrc5569	4C	NM_134442	NP_604391	1385	CREB1	cAMP responsive element binding protein 1
ncrc5592	4C	NM_003932	NP_003923	6767	ST13	suppression of tumorigenicity 13 (colon carcinoma)



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ncrc5608	4C	NM_005013	NP_005004	4925; 399873	NUCB2	nucleobindin 2
ncrc5631	4C	NM_017924	NP_060394	55017	C14orf119	chromosome 14 open reading frame 119
ncrc5663	4C	NM_015411	NP_056226	25870	SUMF2	sulfatase modifying factor 2
ncrc5672	4C	NM_005176	NP_005167	517; 341412	ATP5G2	ATP synthase, H+ transporting, mitochondrial F0 co
ncrc5758	4C	NM_024078	NP_076983	79050	MGCC3162	hypothetical protein MGCC3162
ncrc5760	4C	NM_021222	NP_067045	58497; 149428	HTCD37	Tcd37 homolog
ncrc5806	4C	NM_005506	NP_005497	950	SCARB2	scavenger receptor class B, member 2
ncrc5844	4C	NM_003713	NP_803133	8613	PPAP2B	phosphatidic acid phosphatase type 2B
ncrc6005	4C	NM_002247	NP_002238	3778	KCNMA1	potassium large conductance calcium-activated chan
ncrc6127	4C	NM_002966	NP_002957	6281	SI00A10	SI00 calcium binding protein A10 (annexin II ligan
ncrc6171	4C	NM_000518	NP_000509	3043	HBB	hemoglobin, beta
ncrc6382	4C	NM_014929	NP_055744	22868	KIAA0971	KIAA0971 protein
ncrc6439	4C	XM_291095		339970		Similar to glutamate receptor, ionotropic, N-methy
ncrc6617	4C	NM_007081	NP_009012	11158	RABL2B	RAB, member of RAS oncogene family-like 2B
ncrc6795	4C	NM_203330	NP_976076	966	CD59	CD59 antigen p18-20 (antigen identified by monoclo
ncrc6817	4C	NM_013285	NP_037417	29889	HUMAUANT IG	nucleolar GTPase
ncrc6871	4C	NM_003455	NP_003446	7753	ZNF202	zinc finger protein 202
ncrc6953	4C	NM_016575	NP_057659	51559	TU12B1-TY	TU12B1-TY protein
ncrc6981	4C	NM_006815	NP_006806	10959	RNP24	coated vesicle membrane protein
ncrc7043	4C	NM_003418	NP_003409	7555	ZNF9	zinc finger protein 9 (a cellular retroviral nucle
ncrc7085	4C	NM_002712	NP_002703	5510	PPP1R7	protein phosphatase 1, regulatory subunit 7
ncrc7131	4C	NM_004487	NP_004478	2804	GOLGB1	golgi autoantigen, golgin subfamily b, macrogolgin
ncrc8841	4C	NM_005801	NP_005792	10209	SU11	putative translation initiation factor
ncrc8881	4C	NM_030939	NP_112201	81688	C6orf62	chromosome 6 open reading frame 62

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ncrc8903	4C	NM_003879	NP_003870	8837	CFLAR	CASP8 and FADD-like apoptosis regulator
ncrc8976	4C	NM_003887	NP_003878	8853	DDEF2	development and differentiation enhancing factor 2
ncrc9023	4C	NM_020228	NP_955471	56980	PRDM10	PR domain containing 10
ncrc9055	4C	NM_032313	NP_115689	84273	C4orf14	chromosome 4 open reading frame 14
ncrc9117	4C	NM_024801				
ncrc9217	4C	NM_033550	NP_291028	112858	C20orf64	chromosome 20 open reading frame 64
ncrc9280	4C	NM_145283	NP_660326	158046	C9orf121	chromosome 9 open reading frame 121
ncrc9304	4C	NM_016076	NP_057160	51029	PNAS-4	CGI-146 protein
ncrc9331	4C	NM_017631	NP_060101	55601	FLJ20035	hypothetical protein FLJ20035
ncrc9368	4C	NM_024579	NP_078855	79630	FLJ23221	hypothetical protein FLJ23221
ncrc9428	4C	NM_006925	NP_008856	6430	SFRS5	splicing factor, arginine/serine-rich 5
ncrc9469	4C	NM_002961	NP_062427	6275	S100A4	S100 calcium binding protein A4 (calcium protein,
ncrc9483	4C	NM_020414	NP_065147	57062	DDX24	DEAD (Asp-Glu-Ala-Asp) box polypeptide 24
ncrc9517	4C	NM_025190				
ncrc9557	4C	NM_030778				
ncrc9612	4C	NM_001207	NP_001198	689; 220793	BTF3	basic transcription factor 3
ncrc9712	4C	NM_015701	NP_056516	27248	XTP3TPB	XTP3-transactivated protein B
ncrc9727	4C	NM_003118	NP_003109	6678	SPARC	secreted protein, acidic, cysteine-rich (osteonect
ncrc9729	4C	NM_005360	NP_005351	4094	MAF	v-maf musculoaponeurotic fibrosarcoma oncogene hom
ncrc9758	4C	NM_052966	NP_443198	116496	C1orf24	chromosome 1 open reading frame 24
ncrc9772	4C	NM_002305	NP_002296	3956; 57026; 23616	LGALS1	lectin, galactoside-binding, soluble, 1 (galectin
ncrc9855	4C	NM_025191	NP_079467	80267	C1orf22	chromosome 1 open reading frame 22
ncrc9867	4C	NM_000968	NP_000959	6124	RPL4	ribosomal protein L4
ncrc9877	4C	NM_030917	NP_112179	81608	FIP1L1	FIP1 like 1 (S. cerevisiae)

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ncrc9899	4C	NM_014423	NP_055238	27125	AF5Q31	ALL1 fused gene from 5q31
ncrc9910	4C	NM_006206	NP_006197	5156	PDGFRA	platelet-derived growth factor receptor, alpha pol
seoa0003	4C	NM_002775	NP_002766	5654	PRSS11	protease, serine, 11 (IGF binding)
seoa0008	4C	NM_014394	NP_055209	27069	GHITM	growth hormone inducible transmembrane protein
seoa0029	4C	NM_014888	NP_055703	10447	FAM3C	family with sequence similarity 3, member C
seoa0032	4C	NM_000089	NP_000080	1278	COL1A2	collagen, type I, alpha 2
seoa0070	4C	NM_003850	NP_003841	8803	SUCLA2	succinate-CoA ligase, ADP-forming, beta subunit
seoa0111	4C	NM_016090	NP_057174	10179	RBM7	RNA binding motif protein 7
seoa0172	4C	NM_015507	NP_056322	25975	EGFL6	EGF-like-domain, multiple 6
seoa0174	4C	NM_021109	NP_066932	7114	TMSB4X	thymosin, beta 4, X-linked
seoa0219	4C	NM_002902	NP_002893	5955	RCN2	reticulocalbin 2, EF-hand calcium binding domain
seoa0221	4C	NM_003329	NP_003320	7295	TXN	thioredoxin
seoa0231	4C	NM_005014	NP_005005	4958	OMD	osteonmodulin
seoa0256	4C	NM_003380	NP_003371	7431	VIM	vimentin
seoa0288	4C	NM_002432	NP_002423	4332	MNDA	myeloid cell nuclear differentiation antigen
seoa0457	4C	NM_003270	NP_003261	7105	TM4SF6	transmembrane 4 superfamily member 6
seoa0469	4C	NM_002293	NP_002284	3915	LAMC1	laminin, gamma 1 (formerly LAMB2)
seoa0486	4C	NM_014313	NP_055128	23585	SMP1	small membrane protein 1
seoa0511	4C	NM_015976	NP_689424	51375	SNX7	sorting nexin 7
seoa0539	4C	NM_006806	NP_006797	10950	BTG3	BTG family, member 3
seoa0549	4C	NM_016513	NP_057597	22858	ICK	intestinal cell (MAK-like) kinase
seoa0563	4C	NM_003107	NP_003098	6659	SOX4	SRY (sex determining region Y)-box 4
seoa0740	4C	NM_033546	NP_291024	103910	MRLC2	myosin regulatory light chain MRLC2
seoa0799	4C	NM_057180	NP_476528	51699	VPS29	vacuolar protein sorting 29 (yeast)
seoa0844	4C	NM_002592	NP_872590	5111	PCNA	proliferating cell nuclear antigen

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seoa0913	4C	NM_001769	NP_001760	928	CD9	CD9 antigen (p24)
seoa0926	4C	NM_033301	NP_150644	6132	RPL8	ribosomal protein L8
seoa0931	4C	NM_005053	NP_005044	5886	RAD23A	RAD23 homolog A (S. cerevisiae)
seoa0949	4C	NM_004058	NP_542157	828	CAPS	calyphosine
seoa0959	4C	NM_003884	NP_003875	8850	PCAF	p300/CBP-associated factor
seoa1036	4C	NM_016107	NP_057191	51663	ZFR	zinc finger RNA binding protein
seoa1056	4C	NM_005190	NP_005181	892	CCNC	cyclin C
seoa1065	4C	NM_003017	NP_003008	6428	SFRS3	splicing factor, arginine/serine-rich 3
seoa1089	4C	NM_005594	NP_005585	4666; 5557	NACA	nascent-polypeptide-associated complex alpha polyp
seoa1102	4C	NM_144618	NP_653219	126626	MGC29891	hypothetical protein MGC29891
seoa1104	4C	NM_016071	NP_444263	51650	MRPS33	mitochondrial ribosomal protein S33
seoa1118	4C	NM_000969	NP_000960	6125	RPL5	ribosomal protein L5
seoa1173	4C	NM_016587	NP_057671	11335	CBX3	chromobox homolog 3 (HP1 gamma homolog, Drosophila)
seoa1263	4C	NM_016063	NP_057147	51020	C6orf74	chromosome 6 open reading frame 74
seoa1427	4C	NM_145690	NP_663723	7534	YWHAZ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenas
seoa1460	4C	NM_005843	NP_005834	10254	STAM2	signal transducing adaptor molecule (SH3 domain an
seoa1497	4C	NM_003715	NP_003706	8615	VDP	vesicle docking protein p115
seoa1552	4C	NM_002961	NP_062427	6275	SI00A4	SI00 calcium binding protein A4 (calcium protein,
seoa1559	4C	NM_003913	NP_789770	8899	PRPF4B	PRP4 pre-mRNA processing factor 4 homolog B (yeast
seoa1571	4C	NM_001781	NP_001772	969	CD69	CD69 antigen (p60, early T-cell activation antigen
seoa1582	4C	NM_006306	NP_006297	8243	SMC1L1	SMC1 structural maintenance of chromosomes 1-like
seoa1584	4C	NM_014078	NP_054797	28998	MRPL13	mitochondrial ribosomal protein L13
seoa1598	4C	NM_002106	NP_002097	3015	H2AFZ	H2A histone family, member Z
seoa1653	4C	NM_002381	NP_002372	4148	MATN3	matrilin 3
seoa1720	4C	NM_002484	NP_002475	4682	NUBP1	nucleotide binding protein 1 (Mind homolog, E. col

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seoa1736	4C	NM_002966	NP_002957	6281	S100A10	S100 calcium binding protein A10 (annexin II ligand)
seoa1789	4C	NM_015907	NP_056991	51056	LAP3	leucine aminopeptidase 3
seoa1856	4C	NM_006292	NP_006283	7251	TSG101	tumor susceptibility gene 101
seoa1883	4C	NM_000108	NP_000099	1738	DLD	dihydrodipicolinate dehydrogenase (E3 component of pyruvate dehydrogenase complex)
seoa1940	4C	NM_145169	NP_660152	113402	C6orf83	chromosome 6 open reading frame 83
seoa1979	4C	NM_001219	NP_001210	813	CALU	calumenin
seoa2012	4C	NM_018453	NP_060923	55837	C14orf11	chromosome 14 open reading frame 11
seoa2041	4C	NM_015275	NP_056090	23325	KIAA1033	KIAA1033 protein
seoa2122	4C	NM_020456	NP_065189	57213	C13orf1	chromosome 13 open reading frame 1
seoa2136	4C	NM_033014	NP_148935	4969	OGN	osteolectin (osteogenic factor, mimecan)
seoa2141	4C	NM_206866	NP_996749	571; 54073	BACH1	BTB and CNC homology 1, basic leucine zipper transmembrane protein
seoa2162	4C	NM_001025	NP_001016	6228	RPS23	ribosomal protein S23
seoa2272	4C	NM_018491	NP_742000	150472; 55871	CBWD2	COBW domain containing 2
seoa2363	4C	NM_003341	NP_872607	7324	UBE2E1	ubiquitin-conjugating enzyme E2E 1 (UBC4/5 homolog)
seoa2381	4C	NM_002791	NP_002782	5687	PSMA6	proteasome (prosome, macropain) subunit, alpha type
seoa2391	4C	NM_014970	NP_055785	22920	KIFAP3	kinesin-associated protein 3
seoa2428	4C	NM_001357	NP_085077	1660	DHX9	DEAH (Asp-Glu-Ala-His) box polypeptide 9
seoa2442	4C	NM_006639	NP_006630	10800	CYSLTR1	cysteine/leukotriene receptor 1
seoa2585	4C	NM_007281	NP_009212	11341	SCRG1	scrapie responsive protein 1
seoa2620	4C	NM_003615	NP_003606	9497	SLC4A7	solute carrier family 4, sodium bicarbonate cotransporter
seoa2639	4C	NM_005545	NP_958934	3671	ISLR	immunoglobulin superfamily containing leucine-rich repeats
seoa2641	4C	NM_006178	NP_006169	4905	NSF	N-ethylmaleimide-sensitive factor
seoa2777	4C	NM_007375	NP_031401	23435; 391494	TARDBP	TAR DNA binding protein
seoa2817	4C	NM_005927	NP_005918	4238	MFAP3	microfibrillar-associated protein 3
seoa2819	4C	NM_006827	NP_006818	10972	TMP21	transmembrane trafficking protein

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seoa2949	4C	NM_003900	NP_003891	8878	SQSTM1	sequestosome 1
seoa2957	4C	NM_014670	NP_055485	9689	BZW1	basic leucine zipper and W2 domains 1
seoa2962	4C	NM_014210	NP_055025	2123	EVI2A	ecotropic viral integration site 2A
seoa2970	4C	NM_004355	NP_004346	972	CD74	CD74 antigen (invariant polypeptide of major histocompatibility complex class II)
seoa2978	4C	NM_021102	NP_066925	10653	SPINT2	serine protease inhibitor, Kunitz type, 2
seoa3007	4C	NM_001546	NP_001537	3400	ID4	inhibitor of DNA binding 4, dominant negative helix-loop-helix
seoa3105	4C	NM_002886	NP_002877	5912	RAP2B	RAP2B, member of RAS oncogene family
seoa3108	4C	NM_015933	NP_057017	51372	HSPC016	hypothetical protein HSPC016
seoa3144	4C	NM_000373	NP_000364	7372	UMPS	uridine monophosphate synthetase (orotate phosphoribosyl transferase)
seoa3230	4C	NM_023927	NP_076416	65983	NS3TP2	HCV NS3-transactivated protein 2
seoa3245	4C	NM_024491	NP_077817	80321	BITE	p10-binding protein
seoa3251	4C	NM_031461	NP_113649	83690	LOC83690	CocoaCrisp
seoa3287	4C	NM_002745	NP_620407	5594	MAPK1	mitogen-activated protein kinase 1
seoa3335	4C	NM_030969	NP_112231	81853	TMEM14B	transmembrane protein 14B
seoa3359	4C	NM_004354	NP_004345	901	CCNG2	cyclin G2
seoa3408	4C	NM_022977	NP_075266	2182	ACSL4	acyl-CoA synthetase long-chain family member 4
seoa3422	4C	NM_005324	NP_005315	3021	H3F3B	H3 histone, family 3B (H3.3B)
seoa3489	4C	NM_152511	NP_689724	150290	DUSP18	dual specificity phosphatase 18
seoa3516	4C	NM_020529	NP_065390	4792	NFKB1A	nuclear factor of kappa light polypeptide gene enhancer 1, subunit alpha
seoa3533	4C	NM_002629	NP_002620	5223	PGAM1	phosphoglycerate mutase 1 (brain)
seoa3555	4C	NM_001207	NP_001198	689, 220793	BTF3	basic transcription factor 3
seoa3628	4C	NM_015646	NP_056461	5908	RAP1B	RAP1B, member of RAS oncogene family
seoa3639	4C	NM_001530	NP_851397	3091	HIF1A	hypoxia-inducible factor 1, alpha subunit (basic helix-loop-helix)
seoa3670	4C	NM_015100	NP_997054	23126	POGZ	pogo transposable element with ZNF domain
seoa3704	4C	NM_021183	NP_067006	57826	RAP2C	RAP2C, member of RAS oncogene family

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seoa3717	4C	NM_003375	NP_003366	7417	VDAC2	voltage-dependent anion channel 2
seoa3847	4C	NM_016026	NP_057110	51109; 26101	RDH11	retinol dehydrogenase 11 (all-trans and 9-cis)
seoa3863	4C	NM_001967	NP_001958	1974	EIF4A2	eukaryotic translation initiation factor 4A, isofo
seoa3910	4C	NM_000916	NP_000907	5021	OXTR	oxytocin receptor
seoa4017	4C	NM_021785	NP_068557	10742	RAI2	retinoic acid induced 2
seoa4023	4C	NM_003887	NP_003878	8853	DDEF2	development and differentiation enhancing factor 2
seoa4040	4C	NM_004355	NP_004346	972	CD74	CD74 antigen (invariant polypeptide of major histo
seoa4053	4C	NM_007096	NP_009027	1211	CLTA	clathrin, light polypeptide (Lca)
seoa4107	4C	NM_005719	NP_005710	10094	ARPC3	actin related protein 2/3 complex, subunit 3, 21kD
seoa4158	4C	NM_000391	NP_000382	1200	CLN2	ceroid-lipofuscinosis, neuronal 2, late infantile
seoa4167	4C	NM_017849	NP_060319	55654	FLJ20507	hypothetical protein FLJ20507
seoa4264	4C	NM_006392	NP_006383	10528	NOL5A	nucleolar protein 5A (56kDa with KKE/D repeat)
seoa4305	4C	NM_000090	NP_000081	1281	COL3A1	collagen, type III, alpha 1 (Ehlers-Danlos syndrom
seoa4366	4C	NM_000548	NP_066400	7249	TSC2	tuberous sclerosis 2
seoa4395	4C	NM_006004	NP_005995	7388	UQCRH	ubiquinol-cytochrome c reductase hinge protein
seoa4452	4C	NM_000285	NP_000276	5184	PEPD	peptidase D
seoa4460	4C	NM_020739	NP_065790	9236	CPR8	cell cycle progression 8 protein
seoa4461	4C	NM_002252	NP_002243	3790	KCNS3	potassium voltage-gated channel, delayed-rectifier
seoa4518	4C	NM_000390	NP_000381	1121	CHM	choroideremia (Rab escort protein 1)
seoa4524	4C	NM_016062	NP_057146	51647	CGI-128	CGI-128 protein
seoa4586	4C	NM_004161	NP_004152	5861	RAB1A	RAB1A, member RAS oncogene family
seoa4600	4C	NM_006082	NP_006073	10376	K-ALPHA-1	tubulin, alpha, ubiquitous
seoa4681	4C	NM_018955	NP_061828	7314	UBB	ubiquitin B
seoa4708	4C	NM_001865	NP_001856	1347	COX7A2	cytochrome c oxidase subunit VIIa polypeptide 2 (l
seoa4717	4C	NM_004872	NP_004863	9528	Clorf8	chromosome 1 open reading frame 8



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seoa4727	4C	NM_016101	NP_057185	51388	CGI-37	comparative gene identification transcript 37
seoa5090	4C	NM_006754	NP_874384	6856	SYPL	synaptophysin-like protein
seoa5235	4C	NM_017426	NP_059122	53371	NUP54	nucleoporin 54kDa
seoa5302	4C	NM_000985	NP_000976	6139	RPL17	ribosomal protein L17
seoa5382	4C	NM_080597	NP_579802	114876	OSBPL1A	oxysterol binding protein-like 1A
seoa5429	4C	NM_005347	NP_005338	3309	HSPA5	heat shock 70kDa protein 5 (glucose-regulated prot
seoa5465	4C	NM_012158	NP_036290	26224	FBXL3A	F-box and leucine-rich repeat protein 3A
seoa5547	4C	NM_004552	NP_004543	4725	NDUFS5	NADH dehydrogenase (ubiquinone) Fe-S protein 5, 15
seoa5554	4C	NM_000895	NP_000886	4048	LTA4H	leukotriene A4 hydrolase
seoa5577	4C	NM_003756	NP_003747	8667	EIF3S3	eukaryotic translation initiation factor 3, subuni
seoa5586	4C	NM_019001	NP_061874	54464	I-Sep	strand-exchange protein 1
seoa5662	4C	NM_000430	NP_000421	5048	PAFAH1B1	platelet-activating factor acetylhydrolase, isoform
seoa5683	4C	NM_006838	NP_006829	10988	METAP2	methionyl aminopeptidase 2
seoa5742	4C	NM_004655	NP_004646	8313	AXIN2	axin 2 (conductin, axil)
seoa5894	4C	NM_058183	NP_620305	6651	SON	SON DNA binding protein
seoa5911	4C	NM_004152	NP_004143	4946	OAZ1	ornithine decarboxylase antizyme 1
seoa5933	4C	NM_014965	NP_055780	22906	OIP106	OGT(O-Glc-NAc transferase)-interacting protein 106
seoa5986	4C	NM_006367	NP_006358	10487	CAP1	CAP, adenylate cyclase-associated protein 1 (yeast
seoa6032	4C	NM_145049	NP_659486	134510	MGC10067	hypothetical protein MGC10067
seoa6038	4C	NM_007145	NP_009076	7705	ZNF146	zinc finger protein 146
seoa6133	4C	NM_006667	NP_006658	10857	PGRMC1	progesterone receptor membrane component 1
seoa6137	4C	NM_000546	NP_000537	7157	TP53	tumor protein p53 (Li-Fraumeni syndrome)
seoa6152	4C	NM_004040	NP_004031	388	RHOB	ras homolog gene family, member B
seoa6155	4C	NM_002027	NP_002018	2339	FNTA	farnesyltransferase, CAAX box, alpha
seoa6197	4C	NM_012223	NP_036355	4430	MYO1B	myosin 1B

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seoa6315	4C	NM_015017	NP_963920	23032	USP33	ubiquitin specific protease 33
seoa6344	4C	NM_153816	NP_006363	10492; 57231	SYNCRIP	synaptotagmin binding, cytoplasmic RNA interacting
seoa6393	4C	NM_198219	NP_937862	3621	ING1	inhibitor of growth family, member 1
seoa6412	4C	NM_016308	NP_057392	51727	UMP-CMPK	UMP-CMP kinase
seoa6497	4C	NM_152828	NP_690041	8724	SNX3	sorting nexin 3
seoa6573	4C	NM_022743	NP_073580	64754	SMYD3	SET and MYND domain containing 3
seoa6598	4C	NM_006595	NP_006586	8539	API5	apoptosis inhibitor 5
seoa6620	4C	NM_014325	NP_055140	23603	CORO1C	coronin, actin binding protein, 1C
seoa6621	4C	NM_005940	NP_005931	4320	MMP11	matrix metalloproteinase 11 (stromelysin 3)
seoa6658	4C	NM_018223	NP_060693	55743	CHFR	checkpoint with forkhead and ring finger domains
seoa6661	4C	NM_006988	NP_008919	9510	ADAMTS1	a disintegrin-like and metalloprotease (repolyisin
seoa6697	4C	NM_003217	NP_003208	7009	TEGT	testis enhanced gene transcript (BAX inhibitor 1)
seoa6887	4C	NM_014402	NP_055217	27089	QP-C	low molecular mass ubiquinone-binding protein (9.5
seoa6923	4C	NM_022463	NP_071908	64359	NXN	nucleoredoxin
seoa7094	4C	NM_016422	NP_057506	50862	RNF141	ring finger protein 141
seoa7178	4C	NM_014000	NP_054706	7414	VCL	vinculin
seoa7212	4C	NM_007270	NP_009201	11328	FKBP9	FK506 binding protein 9, 63 kDa
seoa7223	4C	NM_014065	NP_054784	28990	HT001	HT001 protein
seoa7249	4C	NM_024430	NP_077748	9050	PSTPIP2	proline-serine-threonine phosphatase interacting p
seoa7295	4C	NM_153260	NP_694992	255252	FLJ36812	hypothetical protein FLJ36812
seoa7442	4C	NM_006263	NP_788955	5720	PSME1	proteasome (prosome, macropain) activator subunit
seoa7443	4C	NM_021249	NP_689419	58533	SNX6	sorting nexin 6
seoa7459	4C	NM_001755	NP_074036	865	CBFB	core-binding factor, beta subunit
seoa7474	4C	NM_022817	NP_073728	8864	PER2	period homolog 2 (Drosophila)
seoa7478	4C	NM_004126	NP_004117	2791	GNG11	guanine nucleotide binding protein (G protein), ga

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seoa7509	4C	NM_015169	NP_055984	23212	RRS1	RRS1 ribosome biogenesis regulator homolog (S. cer
seoa7517	4C	NM_024408	NP_077719	4853	NOTCH2	Notch homolog 2 (Drosophila)
seoa7530	4C	NM_004622	NP_004613	7247	TSN	translin
seoa7546	4C	NM_015957	NP_057041	51074	MMRP19	likely ortholog of mouse monocyte macrophage 19
seoa7555	4C	NM_003138				
seoa7587	4C	NM_013254	NP_037386	29110	TBK1	TANK-binding kinase 1
seoa7608	4C	NM_014453	NP_940818	27243	BC-2	putative breast adenocarcinoma marker (32kD)
seoa7626	4C	NM_006694	NP_006685	10899	JTB	jumping translocation breakpoint
seoa7902	4C	NM_016424	NP_057508	51747; 10414	LUCTA	cisplatin resistance-associated overexpressed prot
seoa7935	4C	NM_000266	NP_000257	4693	NDP	Norrie disease (pseudoglioma)
seoa8177	4C	NM_001903	NP_001894	1495; 401210	CTNNA1	catenin (cadherin-associated protein), alpha 1, 10
seoa8232	4C	NM_001685	NP_001676	522	ATP5J	ATP synthase, H+ transporting, mitochondrial F0 co
seoa8239	4C	NM_015339	NP_852107	23394	ADNP	activity-dependent neuroprotector
seoa8300	4C	NM_002789	NP_002780	5685	PSMA4	proteasome (prosome, macropain) subunit, alpha typ
seoa8348	4C	NM_000274	NP_000265	4942	OAT	ornithine aminotransferase (gyrate atrophy)
seoa8397	4C	NM_006320	NP_006311	10424	PGRCM2	progesterone receptor membrane component 2
seoa8399	4C	NM_000414	NP_000405	3295	HSD17B4	hydroxysteroid (17-beta) dehydrogenase 4
seoa8401	4C	NM_006519	NP_006510	6993	TCTEL1	t-complex-associated-testis-expressed 1-like 1
seoa8443	4C	NM_014880	NP_055695	9936	DCL-1	type I transmembrane C-type lectin receptor DCL-1
seoa8486	4C	NM_003096	NP_003087	6637	SNRPG	small nuclear ribonucleoprotein polypeptide G
seoa8543	4C	NM_002495	NP_002486	4724	NDUFS4	NADH dehydrogenase (ubiquinone) Fe-S protein 4, 18
seoa8556	4C	NM_004652	NP_068706	8239	USP9X	ubiquitin specific protease 9, X-linked (fat facet
seoa8566	4C	NM_018838	NP_061326	55967	DAP13	13kDa differentiation-associated protein
seoa8597	4C	NM_022137	NP_071420	64093	SMOC1	SPARC related modular calcium binding 1
seoa8640	4C	NM_006410	NP_006401	10553	HTATIP2	HIV-1 Tat interactive protein 2, 30kDa

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seoa8642	4C	NM_199511	NP_955806	151887	URB	steroid sensitive gene 1
seoa8754	4C	NM_015710	NP_056525	29997	GLTSCR2	glioma tumor suppressor candidate region gene 2
seoa8814	4C	NM_002954	NP_002945	6233	RPS27A	ribosomal protein S27a
seoa8870	4C	NM_023039	NP_075526	57763	ANKRA2	ankyrin repeat, family A (RFXANK-like), 2
seoa8894	4C	NM_002450				
seoa8902	4C	NM_001537	NP_001528	3281	HSBP1	heat shock factor binding protein 1
seoa8912	4C	NM_018947	NP_061820	54205	CYCS	cytochrome c, somatic
seoa8916	4C	NM_080425	NP_536351	2778	GNAS	GNAS complex locus
seoa8979	4C	NM_003203	NP_003194	6936	C2orf3	chromosome 2 open reading frame 3
seoa9042	4C	NM_018675	NP_061145	55900	ZNF302	zinc finger protein 302
seoa9131	4C	NM_006601	NP_006592	10728	TEBP	inactive progesterone receptor, 23 kD
seoa9160	4C	NM_015049	NP_055864	66008	ALS2CR3	amyotrophic lateral sclerosis 2 (juvenile) chromos
seoa9357	4C	NM_014367	NP_055182	26355	E2IG5	growth and transformation-dependent protein
seoa9373	4C	NM_013995	NP_054701	3920	LAMP2	lysosomal-associated membrane protein 2
seoa9389	4C	NM_018064	NP_060534	55122	C6orf166	chromosome 6 open reading frame 166
seoa9482	4C	NM_152431	NP_689644	143689	HIWI2	piwi-like 2 (Drosophila)
seoa9537	4C	NM_138792	NP_620147	123169	LOC123169	senescence downregulated leol-1-like
seoa9619	4C	NM_003701	NP_143026	8600	TNFSF11	tumor necrosis factor (ligand) superfamily, member
seoa9711	4C	NM_016282	NP_057366	50808	AK3L1	adenylate kinase 3 like 1
seoa9724	4C	NM_016640	NP_057724	10884	MRPS30	mitochondrial ribosomal protein S30
seoa9729	4C	NM_016587	NP_057671	11335	CBX3	chromobox homolog 3 (HP1 gamma homolog, Drosophila
seoa9739	4C	NM_194356	NP_919337	2054	EPIM	epimorphin
seoa9740	4C	NM_003663	NP_003654	8545; 401078	CGGBP1	CGG triplet repeat binding protein 1
seoa9814	4C	NM_015343	NP_009209	11337; 79142; 23399;	GABARAP	GABA(A) receptor-associated protein

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seoa9817	4C	NM_080832	NP_543022	140886	PABPC5	poly(A) binding protein, cytoplasmic 5
seoa9828	4C	NM_001424	NP_001415	2013	EMP2	epithelial membrane protein 2
seoa9855	4C	NM_003758	NP_003749	8669	EIF3S1	eukaryotic translation initiation factor 3, subunit
seoa9870	4C	NM_024537	NP_078813	79587	FLJ12118	hypothetical protein FLJ12118
seoa9873	4C	NM_153477	NP_705582	8409	UXT	ubiquitously-expressed transcript
seoa9889	4C	NM_004894	NP_004885	9556	C14orf2	chromosome 14 open reading frame 2
seoa9930	4C	NM_018322	NP_060792	55776	C6orf64	chromosome 6 open reading frame 64
seoa9935	4C	NM_002106	NP_002097	3015	H2AFZ	H2A histone family, member Z
seob0031	4C	NM_005034	NP_005025	5440	POLR2K	polymenase (RNA) II (DNA directed) polypeptide K,
seob0046	4C	NM_021145	NP_066968	9988; 402563; 401385	DMTF1	cyclin D binding myb-like transcription factor 1
seob0065	4C	NM_030938	NP_112200	81671	VMP1	likely ortholog of rat vacuole membrane protein 1
seob0085	4C	NM_002192	NP_002183	3624	INHBA	inhibin, beta A (activin A, activin AB alpha polyp
seob0089	4C	NM_004553	NP_004544	4726	NDUFS6	NADH dehydrogenase (ubiquinone) Fe-S protein 6, 13
seob0122	4C	NM_014972	NP_055787	22980	K1AA1049	K1AA1049 protein
seob0154	4C	NM_000978	NP_000969	9349	RPL23	ribosomal protein L23
seob0168	4C	NM_006601	NP_006592	10728	TEBP	inactive progesterone receptor, 23 kD
seob0182	4C	NM_000700	NP_000691	301	ANXA1	annexin A1
seob0200	4C	NM_000186	NP_000177	3075	HFI1	H factor 1 (complement)
seob0201	4C	NM_001102	NP_001093	87	ACTN1	actinin, alpha 1
seob0228	4C	NM_014991	NP_848700	23001	WDFY3	WD repeat and FYVE domain containing 3
seob0248	4C	NM_005005	NP_004996	4715	NDUFB9	NADH dehydrogenase (ubiquinone) 1 beta subcomplex,
seob0253	4C	NM_004454	NP_004445	2119	ETV5	ets variant gene 5 (ets-related molecule)
seob0263	4C	NM_001791	NP_426359	998	CDC42	cell division cycle 42 (GTP binding protein, 25kDa
seob0298	4C	NM_145808	NP_665807	136319	MTPN	myotrophin

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seob0308	4C	NM_005408	NP_005399	6357	CCL13	chemokine (C-C motif) ligand 13
seob0321	4C	NM_016167	NP_057251	51406	NOL7	nucleolar protein 7, 27kDa
seob0376	4C	NM_003392	NP_003383	7474	WNT5A	wingless-type MMTV integration site family, member
seob0418	4C	NM_032557	NP_115946	84640	USP38	ubiquitin specific protease 38
seob0466	4C	NM_017590	NP_060060	23264	RoXan	ubiquitous tetratricopeptide containing protein Ro
seob0478	4C	NM_002268	NP_002259	3840	KPNA4	karyopherin alpha 4 (importin alpha 3)
seob0497	4C	NM_016126	NP_057210	51668	LOC51668	HSPCO34 protein
seob0514	4C	NM_016085	NP_542159	51374	3-Apr	apoptosis related protein APR-3
seob0703	4C	NM_003903	NP_003894	8881	CDC16	CDC16 cell division cycle 16 homolog (S. cerevisia
seob0745	4C	NM_006813	NP_006804	10957	PNRC1	proline-rich nuclear receptor coactivator 1
seob0755	4C	NM_003616	NP_003607	8487	SIP1	survival of motor neuron protein interacting prote
seob0763	4C	NM_014314	NP_055129	23586	RIG-I	DEAD/H (Asp-Glu-Ala-Asp/His) box polypeptide
seob0810	4C	NM_002305	NP_002296	3956; 57026; 23616	LGALS1	lectin, galactoside-binding, soluble, 1 (galectin
seob0831	4C	NM_022497	NP_071942	64432	MRPS25	mitochondrial ribosomal protein S25
seob0846	4C	NM_002610	NP_002601	5163	PDK1	pyruvate dehydrogenase kinase, isoenzyme 1
seob0872	4C	NM_002696	NP_002687	5436	POLR2G	polymerase (RNA) II (DNA directed) polypeptide G
seob1008	4C	NM_014445	NP_055260	27230	SERP1	stress-associated endoplasmic reticulum protein 1
seob1052	4C	NM_022488	NP_071933	64422	APG3	autophagy Apg3p/Aut1p-like
seob1057	4C	NM_020183	NP_064568	56938	ARNTL2	aryl hydrocarbon receptor nuclear translocator-like
seob1093	4C	NM_004688	NP_004679	9111	NMI	N-myc (and STAT) interactor
seob1118	4C	NM_030969	NP_112231	81853	TMEM14B	transmembrane protein 14B
seob1145	4C	NM_007100	NP_009031	521	ATP5I	ATP synthase, H <sup>+</sup> transporting, mitochondrial F0 co
seob1187	4C	NM_014280	NP_055095	22826	DNAJC8	Dnal (Hsp40) homolog, subfamily C, member 8
seob1191	4C	NM_005347	NP_005338	3309	HSPA5	heat shock 70kDa protein 5 (glucose-regulated prot

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seob1231	4C	NM_005721	NP_005712	10096	ACTR3	ARP3 actin-related protein 3 homolog (yeast)
seob1243	4C	NM_003038	NP_003029	6509	SLC1A4	solute carrier family 1 (glutamate/neutral amino a
seob1318	4C	NM_032558	NP_115947	84641	FLJ14753	hypothetical protein FLJ14753
seob1319	4C	NM_020532	NP_997404	57142	RTN4	reticulon 4
seob1322	4C	NM_005252	NP_005243	2353	FOS	v-fos FBJ murine osteosarcoma viral oncogene homol
seob1383	4C	NM_005653	NP_005644	7024	TFCP2	transcription factor CP2
seob1385	4C	NM_014949				
seob1414	4C	NM_004280	NP_004271	9521	EEF1E1	eukaryotic translation elongation factor 1 epsilon
seob1420	4C	NM_006369	NP_006360	10489	MUF1	MUF1 protein
seob1426	4C	NM_006670	NP_006661	7162	TPBG	trophoblast glycoprotein
seob1574	4C	NM_016305	NP_057389	51188	SS18L2	synovial sarcoma translocation gene on chromosome
seob1617	4C	NM_006055	NP_006046	10314	LANCL1	LanC lantibiotic synthetase component C-like 1 (ba
seob1646	4C	NM_152520	NP_689733	151126	ZNF533	zinc finger protein 533
seob1660	4C	NM_024511	NP_078787	79441	C4orf15	chromosome 4 open reading frame 15
seob1667	4C	NM_017971	NP_060441	55052	MRPL20	mitochondrial ribosomal protein L20
seob1737	4C	NM_006824	NP_006815	10969	EBNA1BP2	EBNA1 binding protein 2
seob1746	4C	NM_031419	NP_113607	64332	MAIL	molecule possessing ankyrin repeats induced by lip
seob1748	4C	NM_016491	NP_057575	51253	MRPL37	mitochondrial ribosomal protein L37
seob1766	4C	NM_018572				
seob1770	4C	NM_014608	NP_055423	23191	CYFIP1	cytoplasmic FMR1 interacting protein 1
seob1793	4C	NM_006141	NP_006132	1783	DNCL12	dynein, cytoplasmic, light intermediate polypeptid
seob1834	4C	NM_015895	NP_056979	51053	GMNN	geminin, DNA replication inhibitor
seob1862	4C	NM_022170	NP_114381	7458	WBSCL1	Williams-Beuren syndrome chromosome region 1
seob1879	4C	NM_000861	NP_000852	3269	HRH1	histamine receptor H1
seob1906	4C	NM_018184	NP_060654	55207	ARL10C	ADP-ribosylation factor-like 10C



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seob1908	4C	NM_007158	NP_009089	7812	DIS155E	NRAS-related gene
seob1911	4C	NM_032338	NP_115714	84298	MGC14817	hypothetical protein MGC14817
seob1916	4C	NM_006769	NP_006760	8543	LMO4	LIM domain only 4
seob1972	4C	NM_003128	NP_842565	6711; 56969	SPTBN1	spectrin, beta. non-erythrocytic 1
seob2011	4C	NM_003199	NP_003190	6925	TCF4	transcription factor 4
seob2077	4C	NM_002795	NP_002786	5691	PSMB3	proteasome (prosome, macropain) subunit, beta type
seob2081	4C	NM_007278	NP_009209	11337; 79142; 23399;	GABARAP	GABA(A) receptor-associated protein
seob2108	4C	NM_016587	NP_057671	11335	CBX3	chromobox homolog 3 (HP1 gamma homolog, Drosophila
seob2134	4C	NM_021183	NP_067006	57826	RAP2C	RAP2C, member of RAS oncogene family
seob2139	4C	NM_000176	NP_000167	2908	NR3C1	nuclear receptor subfamily 3, group C, member 1 (g
seob2148	4C	NM_014153	NP_054872	29066	ZC3HDC7	zinc finger CCH type domain containing 7
seob2169	4C	NM_172373	NP_758961	1997	ELF1	E74-like factor 1 (ets domain transcription factor
seob2185	4C	NM_001315	NP_620583	1432	MAPK14	mitogen-activated protein kinase 14
seob2188	4C	NM_017824	NP_060294	54708	FLJ20445	hypothetical protein FLJ20445
seob2221	4C	NM_016497	NP_057581	51258	MRPL51	mitochondrial ribosomal protein L51
seob2642	4C	NM_002271	NP_002262	3843	KPNB3	karyopherin (importin) beta 3
seob2658	4C	NM_004380	NP_004371	1387	CREBBP	CREB binding protein (Rubinstein-Taybi syndrome)
seob2697	4C	NM_002097	NP_002088	2971	GTF3A	general transcription factor IIIA
seob2750	4C	NM_000291	NP_000282	5230	PGK1	phosphoglycerate kinase 1
seob2797	4C	NM_152369	NP_689582	126969	MGC45474	hypothetical protein MGC45474
seob2803	4C	NM_003333	NP_003324	7311	UBA52	ubiquitin A-52 residue ribosomal protein fusion pr
seob2807	4C	NM_016839	NP_058523	5937	RBMS1	RNA binding motif, single stranded interacting pro
seob2810	4C	NM_018452	NP_060922	55836	C6orf35	chromosome 6 open reading frame 35
seob2816	4C	NM_003387	NP_003378	7456	WASPIP	Wiskott-Aldrich syndrome protein interacting prote

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seob2936	4C	NM_004515	NP_004506	3608	ILF2	interleukin enhancer binding factor 2, 45kDa
seob2959	4C	NM_001022	NP_001013	6223	RPS19	ribosomal protein S19
seob2966	4C	NM_002480	NP_002471	4659	PPP1R12A	protein phosphatase 1, regulatory (inhibitor) subu
seob2987	4C	NM_003928	NP_003919	8933	CXX1	CAAX box 1
seob2994	4C	NM_014819	NP_055634	9867	PJA2	praja 2, RING-H2 motif containing
seob3007	4C	NM_018286	NP_060756	55273	FLJ10970	hypothetical protein FLJ10970
seob3064	4C	NM_004642	NP_004633	8099	CDK2AP1	CDK2-associated protein 1
seob3076	4C	NM_005734	NP_005725	10114	HIPK3	homeodomain interacting protein kinase 3
seob3119	4C	NM_015396	NP_998819	25852	HSPC056	HSPC056 protein
seob3154	4C	NM_017615	NP_060085	54780	C10orf86	chromosome 10 open reading frame 86
seob3169	4C	NM_005491	NP_005482	10046	CXorf6	chromosome X open reading frame 6
seob3170	4C	NM_006208	NP_006199	5167	ENPP1	ectonucleotide pyrophosphatase/phosphodiesterase 1
seob3182	4C	NM_014639	NP_055454	9652	K1AA0372	K1AA0372
seob3189	4C	NM_004894	NP_004885	9556	C14orf2	chromosome 14 open reading frame 2
seob3191	4C	NM_033044	NP_149033	23499	MACF1	microtubule-actin crosslinking factor 1
seob3303	4C	NM_006603	NP_006594	10735	STAG2	stromal antigen 2
seob3307	4C	NM_000358	NP_000349	7045	TGFB1	transforming growth factor, beta-induced, 68kDa
seob3313	4C	NM_199203	NP_954595	7335; 387521; 387522	UBE2V1	ubiquitin-conjugating enzyme E2 variant 1
seob3326	4C	NM_001004	NP_000995	6181	RPLP2	ribosomal protein, large P2
seob3356	4C	NM_015646	NP_056461	5908	RAP1B	RAP1B, member of RAS oncogene family
seob3367	4C	NM_153267	NP_694999	256691	MAMDC2	MAM domain containing 2
seob3451	4C	NM_016275	NP_057359	51714; 389704	SELT	selenoprotein T
seob3455	4C	NM_006519	NP_006510	6993	TCTEL1	t-complex-associated-testis-expressed 1-like 1
seob3462	4C	XM_088391				

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seob3464	4C	NM_001378	NP_001369	1781	DNC12	dynein, cytoplasmic, intermediate polypeptide 2
seob3468	4C	NM_032026	NP_114415	83940	CD411	CD411 protein
seob3485	4C	NM_001938	NP_001929	1810	DR1	down-regulator of transcription 1, TBP-binding (ne
seob3499	4C	NM_152862	NP_690601	10109	ARPC2	actin related protein 2/3 complex, subunit 2, 34KD
seob3513	4C	NM_001003	NP_998890	6176	RPLP1	ribosomal protein, large, P1
seob3518	4C	NM_003744	NP_003735	8650	NUMB	numb homolog (Drosophila)
seob3520	4C	NM_004578	NP_004569	5867; 10638	RAB4A	RAB4A, member RAS oncogene family
seob3533	4C	NM_013436	NP_995314	10787	NCKAP1	NCK-associated protein 1
seob3670	4C	NM_002488	NP_000582	929; 4695	CD14	CD14 antigen
seob3699	4C	NM_058183	NP_620305	6651	SON	SON DNA binding protein
seob3731	4C	NM_002520	NP_954654	4869	NPM1	nucleophosmin (nucleolar phosphoprotein B23, numat
seob3734	4C	NM_004597	NP_808210	6633	SNRPD2	small nuclear ribonucleoprotein D2 polypeptide 16.
seob3751	4C	NM_018453	NP_060923	55837	C14orf11	chromosome 14 open reading frame 11
seob3854	4C	NM_006496	NP_006487	2773	GNAI3	guanine nucleotide binding protein (G protein), al
seob3869	4C	NM_003919	NP_003910	8910	SGCE	sarcoglycan, epsilon
seob3887	4C	NM_020841	NP_065892	114882	OSBPL8	oxysterol binding protein-like 8
seob3923	4C	NM_016018	NP_940915	51105	CGI-72	CGI-72 protein
seob4029	4C	NM_014711	NP_055526	9738	CP110	CP110 protein
seob4030	4C	NM_153012				
seob4039	4C	NM_021960	NP_877495	4170	MCL1	myeloid cell leukemia sequence 1 (BCL2-related)
seob4050	4C	NM_005566	NP_005557	3939	LDHA	lactate dehydrogenase A
seob4075	4C	NM_002874	NP_002865	5887	RAD23B	RAD23 homolog B (S. cerevisiae)
seob4108	4C	NM_020122	NP_064507	56888	KCMF1	potassium channel modulatory factor 1
seob4118	4C	NM_013387	NP_037519	29796	HSPC051	ubiquinol-cytochrome c reductase complex (7.2 kD)
seob4122	4C	NM_002107	NP_002098	3020	H3F3A	H3 histone, family 3A

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seob4191	4C	NM_007080	NP_009011	11157	LSM6	LSM6 homolog, U6 small nuclear RNA associated (S.
seob4197	4C	NM_014287	NP_775885	283820; 23420	LOC283820	hypothetical protein LOC283820
seob4209	4C	NM_199418	NP_955450	5547; 360219	PRCP	prolylcarboxypeptidase (angiotensinase C)
seob4213	4C	NM_024420	NP_077734	5321	PLA2G4A	phospholipase A2, group IV/A (cytosolic, calcium-de
seob4273	4C	NM_015540	NP_056355	26015	RPAP1	RNA polymerase II associated protein 1
seob4303	4C	NM_001028	NP_001019	6230	RPS25	ribosomal protein S25
seob4333	4C	NM_020347	NP_065080	54585	LZTFL1	leucine zipper transcription factor-like 1
seob4419	4C	NM_005870	NP_005861	10284	SAP18	sin3-associated polypeptide, 18kDa
seob4427	4C	NM_144498	NP_653081	9885	OSBP12	oxysterol binding protein-like 2
seob4480	4C	NM_021642	NP_067674	2212	FCGR2A	Fc fragment of IgG, low affinity IIa, receptor for
seob4492	4C	NM_004130	NP_004121	2992	GYG	glycogenin
seob4515	4C	NM_015920	NP_057004	51065	RPS27L	ribosomal protein S27-like
seob4539	4C	NM_020365	NP_065098	8891	EIF2B3	eukaryotic translation initiation factor 2B, subun
seob4545	4C	NM_015470	NP_056285	26056	GAF1	gamma-SNAP-associated factor 1
seob4555	4C	NM_023028	NP_075420	2263	FCFR2	fibroblast growth factor receptor 2 (bacteria-expr
seob4570	4C	NM_005817	NP_005808	10226	M6PRBP1	mannose-6-phosphate receptor binding protein 1
seob4579	4C	NM_004546	NP_004537	4708	NDUFB2	NADH dehydrogenase (ubiquinone) 1 beta subcomplex,
seob4612	4C	NM_006241	NP_006232	5504	PPP1R2	protein phosphatase 1, regulatory (inhibitor) subu
seob4621	4C	NM_004627	NP_004618	7485	WRB	tryptophan rich basic protein
seob4669	4C	NM_002265	NP_002256	3837	KPNB1	karyopherin (importin) beta 1
seob4726	4C	NM_006096	NP_006087	10397	NDRG1	N-myc downstream regulated gene 1
seob4752	4C	NM_206839	NP_996670	10933	MORF4L1	mortality factor 4 like 1
seob4766	4C	NM_018976	NP_061849	54407	SLC38A2	solute carrier family 38, member 2
seob4807	4C	NM_004593	NP_004584	6434	SFRS10	splicing factor, arginine/serine-rich 10 (transfor
seob4835	4C	NM_005154	NP_005145	9101	USP8	ubiquitin specific protease 8

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seob4896	4C	NM_003256	NP_003247	7079	TIMP4	tissue inhibitor of metalloproteinase 4
seob4945	4C	NM_001560	NP_001551	3597	IL13RA1	interleukin 13 receptor, alpha 1
seob4972	4C	NM_001386	NP_001377	1808	DPYSL2	dihydropyrimidinase-like 2
seob4992	4C	NM_025134	NP_079410	80205; 29962	FLJ12178	hypothetical protein FLJ12178
seob5004	4C	NM_001402	NP_001393	1915; 389411	EEF1A1	eukaryotic translation elongation factor 1 alpha 1
seob5012	4C	NM_006965	NP_008896	7572	ZNF24	zinc finger protein 24 (KOX 17)
seob5032	4C	NM_032273	NP_115649	84233	DKFZp586C1924	hypothetical protein DKFZp586C1924
seob5044	4C	NM_022551	NP_003773	8705; 6222	B3GALT4	UDP-Gal:betaGlcNAc beta 1,3-galactosyltransferase,
seob5174	4C	NM_016613	NP_057697	51313	DKFZp434L142	hypothetical protein DKFZp434L142
seob5213	4C	NM_013338	NP_037470	29880	ALG5	asparagine-linked glycosylation 5 homolog (yeast,
seob5219	4C	NM_144684	NP_653285	147657	MGC32104	hypothetical protein MGC32104
seob5240	4C	NM_019619	NP_062565	56288	PARD3	par-3 partitioning defective 3 homolog (C. elegans
seob5319	4C	NM_015577	NP_056392	26064	RAI14	retinoic acid induced 14
seob5441	4C	NM_005470	NP_005461	10006	ABI1	abi-interactor 1
seob5458	4C	NM_173552	NP_775823	205428	MGC33365	hypothetical protein MGC33365
seob5490	4C	NM_002064	NP_002055	2745	GLRX	glutaredoxin (thioltransferase)
seob5523	4C	NM_005496	NP_005487	10051	SMC4L1	SMC4 structural maintenance of chromosomes 4-like
seob5562	4C	NM_014315	NP_055130	23588	KLHDC2	kelch domain containing 2
seob5645	4C	NM_001344	NP_001335	1603	DAD1	defender against cell death 1
seob5726	4C	NM_005749	NP_005740	10140	TOB1	transducer of ERBB2, 1
seob5743	4C	NM_012168	NP_036300	26232	FBXO2	F-box only protein 2
seob5748	4C	NM_031268				
seob5778	4C	NM_207111	NP_996999	54476	TRIAD3	TRIAD3 protein
seob5886	4C	NM_016530	NP_057614	51762	RAB8B	RAB8B, member RAS oncogene family

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seob5927	4C	NM_024561	NP_078837	79612	FLJ22054	hypothetical protein FLJ22054
seob5954	4C	NM_001304	NP_001295	1362	CPD	carboxypeptidase D
seob6004	4C	NM_016053	NP_057137	51019	CGI-116	CGI-116 protein
seob6015	4C	NM_004902	NP_909132	9584	RNPC2	RNA-binding region (RNP1, RRM) containing 2
seob6041	4C	NM_001949	NP_001940	1871	E2F3	E2F transcription factor 3
seob6096	4C	NM_002223	NP_002214	3709	ITPR2	inositol 1,4,5-triphosphate receptor, type 2
seob6131	4C	NM_002916	NP_853551	5984	RFC4	replication factor C (activator 1) 4, 37kDa
seob6133	4C	NM_002298	NP_002289	3936	LCP1	lymphocyte cytosolic protein 1 (L-plastin)
seob6189	4C	NM_002004	NP_001995	2224	FDPS	farnesyl diphosphate synthase (farnesyl pyrophosph
seob6206	4C	NM_145702	NP_004837	9470; 200765	EIF4EL3	eukaryotic translation initiation factor 4E-like 3
seob6229	4C	NM_020192	NP_064577	57002	C7orf36	chromosome 7 open reading frame 36
seob6272	4C	NM_002767	NP_002758	5636	PRPSAP2	phosphoribosyl pyrophosphate synthetase-associated
seob6279	4C	NM_006818	NP_006809	10962	AF1Q	ALL1-fused gene from chromosome 1q
seob6368	4C	NM_001311	NP_001303	1397; 1396	CRIP2	cysteine-rich protein 2
seob6413	4C	NM_016357	NP_057441	51474	EPLIN	epithelial protein lost in neoplasm beta
seob6446	4C	XM_051200		79068	FTO	fatso
seob6467	4C	NM_006425	NP_006416	10569	SLU7	step II splicing factor SLU7
seob6486	4C	NM_016578	NP_057662	51773	HBXAP	hepatitis B virus x associated protein
seob6492	4C	NM_001540	NP_001531	3315	HSPB1	heat shock 27kDa protein 1
seob6525	4C	NM_131105				
seob6558	4C	NM_016096	NP_057180	51123	LOC51123	HSPC038 protein
seob6560	4C	NM_004229	NP_004220	9282	CRSP2	cofactor required for Sp1 transcriptional activati
seob6576	4C	NM_019026	NP_061899	54499	LOC54499	putative membrane protein
seob6582	4C	NM_002124	NP_072049	3125; 3127; 3126; 31	HLA-DRB3	major histocompatibility complex, class II, DR bet
seob6670	4C	NM_000122	NP_000113	2071	ERCC3	excision repair cross-complementing rodent repair

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seob6680	4C	NM_001923	NP_001914	1642	DBD1	damage-specific DNA binding protein 1, 127kDa
seob6751	4C	NM_003321	NP_003312	7284	TUFM	Tu translation elongation factor, mitochondrial
seob6835	4C	NM_014883				
seob6836	4C	NM_005080	NP_005071	7494	XBP1	X-box binding protein 1
seob6844	4C	NM_002940	NP_002931	6059	ABCE1	ATP-binding cassette, sub-family E (OABP), member
seob6851	4C	NM_005000	NP_004991	4698	NDUFA5	NADH dehydrogenase (ubiquinone) 1 alpha subcomplex
seob6853	4C	NM_020414	NP_065147	57062	DDX24	DEAD (Asp-Glu-Ala-Asp) box polypeptide 24
seob7404	4C	NM_001656	NP_150231	373	ARFD1	ADP-ribosylation factor domain protein 1, 64kDa
seob7432	4C	NM_016058	NP_057142	51002	CGI-121	CGI-121 protein
seob7465	4C	NM_002819	NP_787041	5725	PTBP1	polypyrimidine tract binding protein 1
seob7474	4C	NM_003910	NP_003901	8896	G10	maternal G10 transcript
seob7584	4C	NM_006930	NP_733779	6500	SKP1A	S-phase kinase-associated protein 1A (p19A)
seob7622	4C	NM_007100	NP_009031	521	ATP5I	ATP synthase, H+ transporting, mitochondrial F0 co
seob7658	4C	NM_014614	NP_055429	23198	PSME4	proteasome (prosome, macropain) activator subunit
seob7729	4C	NM_003329	NP_003320	7295	TXN	thioredoxin
seob7744	4C	NM_058183	NP_620305	6651	SON	SON DNA binding protein
seob7764	4C	NM_014394	NP_055209	27069	GHTM	growth hormone inducible transmembrane protein
seob7946	4C	NM_206839	NP_996670	10933	MORF4L1	mortality factor 4 like 1
seob7981	4C	NM_032747	NP_116136	84833	USMG5	upregulated during skeletal muscle growth 5
seob8065	4C	NM_002568	NP_002559	26986	PABPC1	poly(A) binding protein, cytoplasmic 1
seob8099	4C	NM_014206	NP_055021	746	C11orf10	chromosome 11 open reading frame 10
seob8104	4C	NM_133631	NP_598334	6091	ROBO1	roundabout, axon guidance receptor, homolog 1 (Dro
seob8204	4C	NM_006475	NP_006466	10631	POSTN	perostin, osteoblast specific factor
seob8255	4C	NM_014210	NP_055025	2123	EV12A	ecotropic viral integration site 2A
seob8311	4C	NM_000985	NP_000976	6139	RPL17	ribosomal protein L17



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seob8355	4C	NM_017714	NP_060184	55617	C2orf13	chromosome 20 open reading frame 13
seob8368	4C	NM_138363	NP_612372	90799	LOC90799	hypothetical protein BC009518
seob8501	4C	NM_015023	NP_055838	23038	WDTC1	WD and tetratricopeptide repeats 1
seob8693	4C	NM_145312	NP_660355	220992	ZNF485	zinc finger protein 485
seob8807	4C	NM_032245				
seob8817	4C	NM_001515	NP_001506	2966	GTF2H2	general transcription factor IIH, polypeptide 2, 4
seob9067	4C	NM_139279	NP_644808	90411	MCFD2	multiple coagulation factor deficiency 2
seob9145	4C	NM_006813	NP_006804	10957	PNRC1	proline-rich nuclear receptor coactivator 1
seob9241	4C	NM_002789	NP_002780	5685	PSMA4	proteasome (prosome, macropain) subunit, alpha typ
seob9266	4C	NM_003341	NP_872607	7324	UBE2E1	ubiquitin-conjugating enzyme E2E 1 (UBC4/5 homolog
seob9282	4C	NM_020117	NP_064502	51520	LARS	leucyl-tRNA synthetase
seob9353	4C	NM_015530	NP_056345	26003	GORASP2	golgi reassembly stacking protein 2, 55kDa
seob9430	4C	NM_021227	NP_067050	58505	DC2	DC2 protein
seob9480	4C	NM_016021	NP_057105	51465	UBE2J1	ubiquitin-conjugating enzyme E2, J1 (UBC6 homolog,
seob9485	4C	NM_014016	NP_054735	22908	SACM1L	SAC1 suppressor of actin mutations 1-like (yeast)
seob9543	4C	NM_017946	NP_060416	55033	FKBP14	FK506 binding protein 14, 22 kDa
seob9552	4C	NM_018314	NP_060784	55293	UEV3	ubiquitin-conjugating enzyme E2-like
seob9574	4C	NM_014394	NP_055209	27069	GHTM	growth hormone inducible transmembrane protein
seob9614	4C	NM_004538	NP_004529	4675	NAP1L3	nucleosome assembly protein 1-like 3
seob9635	4C	NM_002789	NP_002780	5685	PSMA4	proteasome (prosome, macropain) subunit, alpha typ
seob9645	4C	NM_001320	NP_001311	1460	CSNK2B	casein kinase 2, beta polypeptide
seob9649	4C	NM_016548	NP_808800	51280	GOLPH2	golgi phosphoprotein 2
seob9750	4C	NM_032557	NP_115946	84640	USP38	ubiquitin specific protease 38
seob9756	4C	NM_017610	NP_060080	54778	RNF111	ring finger protein 111
seob9772	4C	NM_144629	NP_652330	130132	C2orf11	chromosome 2 open reading frame 11

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seob9872	4C	NM_024537	NP_078813	79587	FLJ12118	hypothetical protein FLJ12118
seob9882	4C	NM_007114	NP_009045	7110	TMF1	TATA element modulatory factor 1
seob9946	4C	NM_002113	NP_002104	3078; 3079	HFL1	H factor (complement)-like 1
seoc0276	4C	NM_017746	NP_060216	54881	TEX10	testis expressed gene 10
seoc0369	4C	NM_025146	NP_079422	80218	MAK3P	likely ortholog of mouse Mak3p homolog (S. cerevis
seoc0394	4C	NM_000406	NP_000397	2798	GNRHR	gonadotropin-releasing hormone receptor
seoc0513	4C	NM_170746	NP_734467	280636	SELH	selenoprotein H
seoc0775	4C	NM_018993	NP_061866	54453	RIN2	Ras and Rab interactor 2
seoc0778	4C	NM_024511	NP_078787	79441	C4orf15	chromosome 4 open reading frame 15
seoc0866	4C	NM_017613	NP_665738	29980	DONSON	downstream neighbor of SON
seoc0924	4C	NM_145808	NP_665807	136319	MTPN	myotrophin
seoc0999	4C	NM_052966	NP_443198	116496	C1orf24	chromosome 1 open reading frame 24
seoc1023	4C	NM_002546	NP_002537	4982	TNFRSF11B	tumor necrosis factor receptor superfamily, member
seoc1025	4C	NM_003380	NP_003371	7431	VIM	vimentin
seoc1118	4C	NM_001173	NP_001164	394	ARHGAP5	Rho GTPase activating protein 5
seoc1159	4C	NM_144658	NP_653259	139818	DOCK11	dedicator of cytokinesis 11
seoc1175	4C	NM_024829	NP_079105	79887	FLJ22662	hypothetical protein FLJ22662
seoc1203	4C	NM_002794	NP_002785	5690	PSMB2	proteasome (prosome, macropain) subunit, beta type
seoc1230	4C	NM_024558	NP_078834	79609	C14orf138	chromosome 14 open reading frame 138
seoc1234	4C	NM_015907	NP_056991	51056	LAP3	leucine aminopeptidase 3
seoc1264	4C	NM_021273	NP_067248	12709	Ckb	creatine kinase, brain
seoc1539	4C	NM_004888	NP_004879	9550	ATP6V1G1	ATPase, H+ transporting, lysosomal 13kDa, V1 subun
seoc1593	4C	NM_012479	NP_036611	7532	YWHAQ	tyrosine 3-monooxygenase/tryptophan 5-monooxygenas
seoc1664	4C	NM_016430	NP_710149	51227	DSCR5	Down syndrome critical region gene 5
seoc1948	4C	NM_138436	NP_612445	114926	LOC114926	hypothetical protein BCO13035

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seoc1996	4C	NM_017751	NP_060421	55627	FLJ20297	hypothetical protein FLJ20297
seoc2029	4C	NM_144781	NP_659005	5134	PDGD2	programmed cell death 2
seoc2131	4C	NM_133325	NP_579866	55274	PHF10	PHD finger protein 10
seoc2173	4C	NM_020948	NP_065999	57708	MI-ER1	mesoderm induction early response 1
seoc2191	4C	NM_005204	NP_005195	1326	MAP3K8	mitogen-activated protein kinase kinase 8
seoc2226	4C	XM_210358				
seoc2246	4C	NM_001207	NP_001198	689, 220793	BTF3	basic transcription factor 3
seoc2253	4C	NM_020555				
seoc2264	4C	NM_017733	NP_060203	54872	FLJ20265	hypothetical protein FLJ20265
seoc2447	4C	NM_002473	NP_002464	4627	MYH9	myosin, heavy polypeptide 9, non-muscle
seoc2824	4C	NM_017734	NP_060204	54873	PALMD	palmdelphin
seoc3588	4C	NM_173060	NP_775085	831	CAST	calpastatin
seoc3603	4C	NM_019059	NP_061932	54543	TOMM7	translocase of outer mitochondrial membrane 7 homo
seoc3876	4C	NM_002160	NP_002151	3371	TNC	tenascin C (hexabrachion)
seoc3980	4C	XM_167549				
seoc3993	4C	NM_002160	NP_002151	3371	TNC	tenascin C (hexabrachion)
seoc4052	4C	NM_021104	NP_066927	6171	RPL41	ribosomal protein L41
seoc4187	4C	NM_004595	NP_004586	6611	SMS	spermine synthase
seoc4288	4C	NM_020957	NP_066008	57717	PCDHB16	protocadherin beta 16
seoc4380	4C	NM_030877	NP_110517	56259	CTNBL1	catenin, beta like 1
seoc4416	4C	NM_005016	NP_114366	5094	PCBP2	poly(rC) binding protein 2
seoc4505	4C	NM_018441	NP_060911	55825	PECR	peroxisomal trans-2-enoyl-CoA reductase
seoc4909	4C	NM_138376	NP_612385	91875	TTC5	tetratricopeptide repeat domain 5
seoc4960	4C	NM_000405	NP_000396	2760, 401213	GM2A	GM2 ganglioside activator protein
seoc5285	4C	NM_015541	NP_056356	26018	LRI G1	leucine-rich repeats and immunoglobulin-like domai

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seoc5627	4C	NM_004719	NP_004710	9169	SFRS2IP	splicing factor, arginine/serine-rich 2, interacti
seoc6169	4C	NM_003253	NP_003244	7074	TLAM1	T-cell lymphoma invasion and metastasis 1
seoc6703	4C	NM_002356	NP_002347	4082	MARCKS	myristoylated alanine-rich protein kinase C substr
seoc7281	4C	NM_024692	NP_078968	79745	FLJ21069	hypothetical protein FLJ21069